

**TOSHIBA**

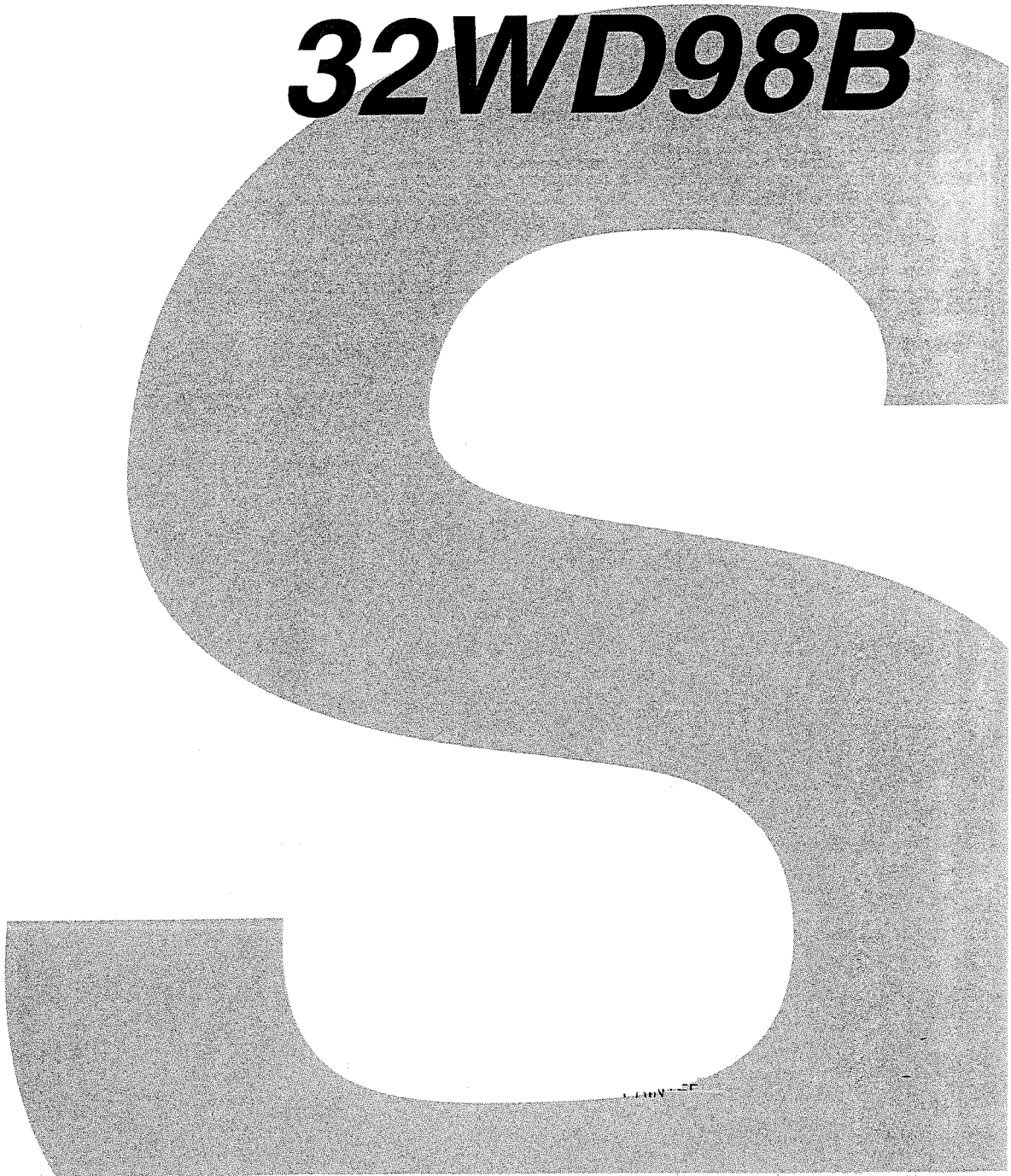
FILE NO. 030-9914

SERVICE MANUAL

COLOUR TELEVISION

C9SS Chassis

**32WD98B**



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## CHAPTER 1 GENERAL ADJUSTMENTS

### SAFETY INSTRUCTIONS

**WARNING:** BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

#### X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is (A) kV at zero beam current (minimum brightness) under a (C) V AC power source. The high voltage must not, under any circumstances, exceed (B) kV.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
3. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

Refer to table-1 for high voltage (A), (B) & AC voltage (C).  
(See SETTING & ADJUSTING DATA on page 18)

Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.

#### SAFETY PRECAUTION

**WARNING :** Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

#### PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

**WARNING:** BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

## SET-UP ADJUSTMENT

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed. Perform the adjustments in order as follows :

1. Color Purity
2. Convergence
3. White Balance

Note: The PURITY/CONVERGENCE MAGNET assembly and rubber wedges need mechanical positioning. Refer to figure 1.

- \* There are no adjustment of purity and convergence in some picture tube (Unified with purity magnet)

### COLOR PURITY ADJUSTMENT

NOTE : Before attempting any purity adjustments, the receiver should be operated for at least fifteen minutes.

1. Demagnetize the picture tube and cabinet using a degaussing coil.
2. Set the brightness and contrast to maximum.
3. Use a green raster from among the built-in test signals.
4. Loosen the clamp screw holding the yoke and slide the yoke backward or forward to provide vertical green belt (zone) in the picture screen.
5. Remove the Rubber Wedges.
6. Rotate and spread the tabs of the purity magnet (See figure 2.) around the neck of the picture tube until the green belt is in the center of the screen. At the same time, enter the raster vertically.
7. Slowly move the yoke forward or backward until a uniform green screen is obtained. Tighten the clamp screw of the yoke temporarily.
8. Check the purity of the red and blue raster.

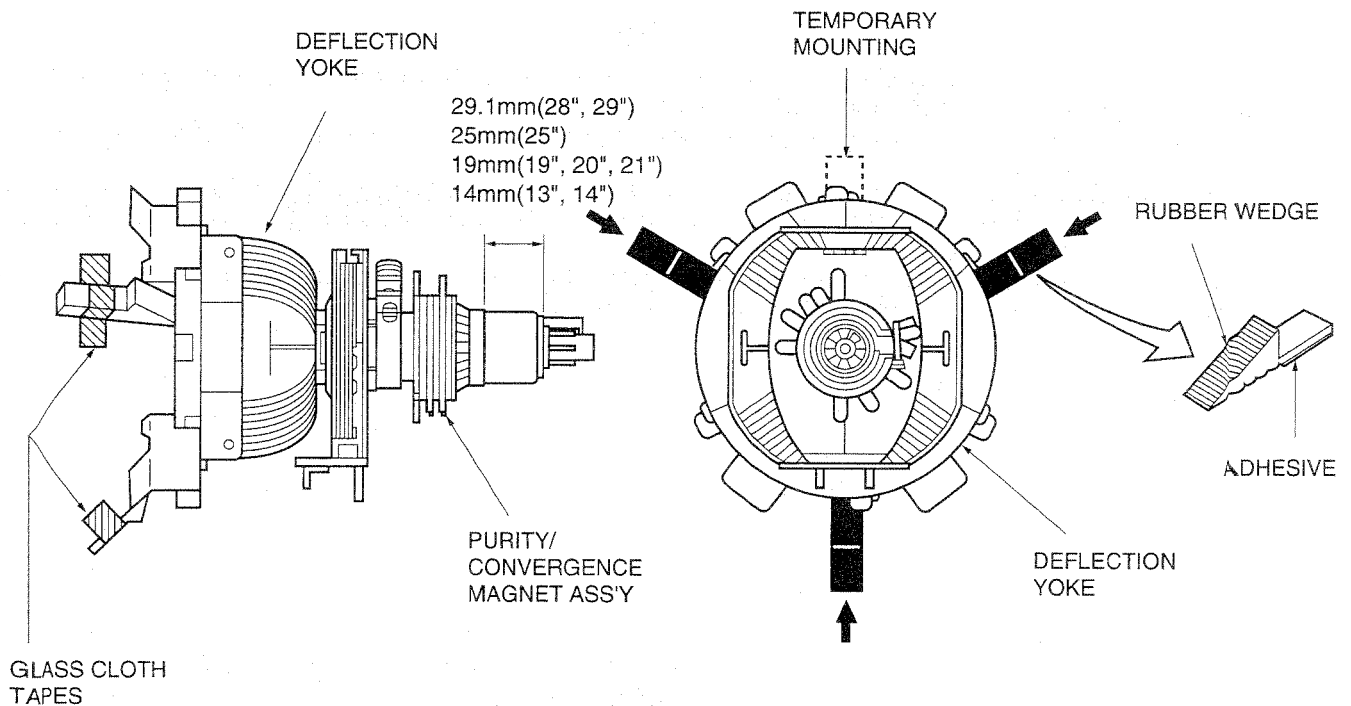


Figure 1.



## CONVERGENCE ADJUSTMENTS

NOTE: Before attempting any convergence adjustments, the receiver should be operated for at least fifteen minutes.

### ■ CENTER CONVERGENCE ADJUSTMENT

1. Use the cross-dot pattern from among the built-in test signals.
2. Set the brightness and contrast for well defined pattern.
3. Adjust two tabs of the 4-Pole Magnets to change the angle between them (See figure 2.) and superimpose red and blue vertical lines in the center area of the picture screen.
4. Turn the both tabs at the same time keeping the angle constant to superimpose red and blue horizontal lines at the center of the screen.
5. Adjust two tabs of 6-Pole Magnets to superimpose red/blue line and green one. Adjusting the angle affects the vertical lines and rotating both magnets affects the horizontal lines.
6. Repeat adjustments 3, 4, 5 keeping in mind red, green and blue movement, because 4-Pole Magnets and 6-Pole Magnets have mutual interaction and make dot movement complex.

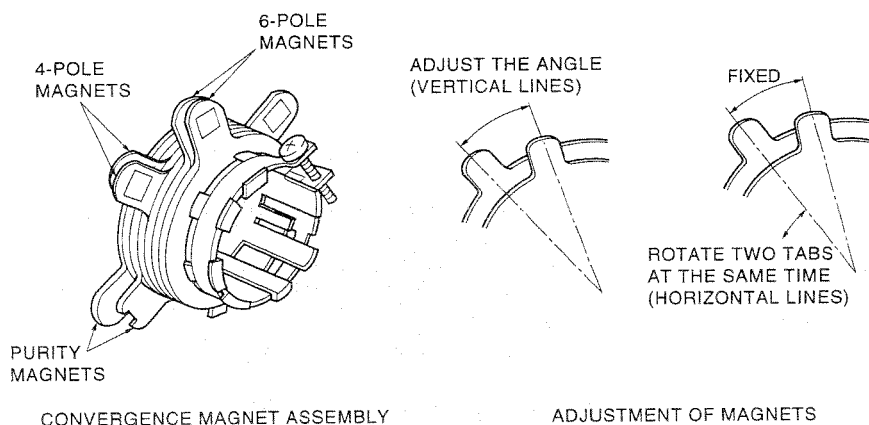
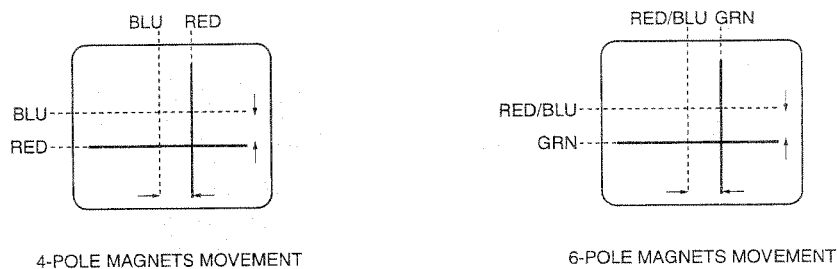


Figure 2.



Center Convergence by Convergence Magnets



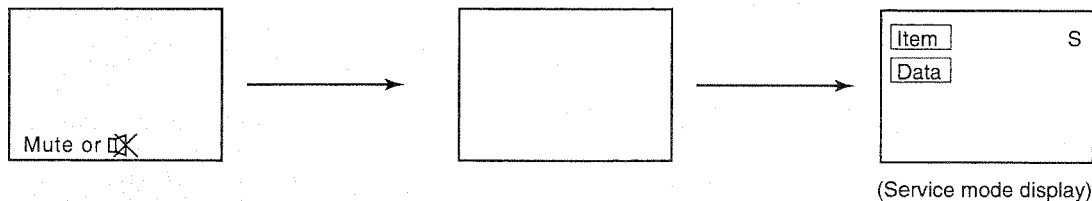
Circumference Convergence by DEF Yoke

Figure 3. Dot Movement Pattern

## SERVICE MODE

### 1. ENTERING TO SERVICE MODE

- 1) Press  button once on Remote Control.
- 2) Press  button again to keep pressing.
- 3) While pressing the  button, press MENU button on TV set.



### 2. DISPLAYING THE ADJUSTMENT MENU

- 1) Press MENU button on TV.



### 3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

A single horizontal line ON/OFF:

Test signal selection :

Selection of the adjustment items :

Change of the data value :

Adjustment menu mode ON/OFF :

Initialization of the memory (QA02) :

Reset the count of operating protect circuit to "00":

"RCUT" selection :

"GCUT" selection :

"BCUT" selection :

"CNTX" (or "SCNT") selection :

"COLC" selection :

"TNTC" selection :

Test audio signal ON/OFF (1kHz) :

Self diagnostic display ON/OFF :

- / - - button (on Remote) or  button (on TV)

 button (on Remote)

Channel   (on TV or Remote)

Volume   +/- (on TV or Remote)

MENU button (on TV)

CALL + Channel button on TV ()

CALL + Channel button on TV ()

1 button

2 button

3 button

4 button

5 button - - - Color thickness correction

6 button

8 button

9 button

note: Displayed differently as shown below, depending on the setting of the receiving color system.

COLP (PAL)

COLC (NTSC)

COLS (SECAM)

**CAUTION :** Never try to perform initialization unless you have changed the memory IC.

#### 4. SELECTING THE ADJUSTING ITEMS

- 1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2.  
(▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode.  
(See SETTING & ADJUSTING DATA on page 18)

#### 5. ADJUSTING THE DATA

- 1) Pressing of VOLUME ▲/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

#### 6. EXIT FROM SERVICE MODE

- 1) Pressing POWER button to turn off the TV once.

#### ■ INITIALIZATION OF MEMORY DATA OF QA02

After replacing QA02, the following initialization is required.

1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been completed.
3. Check the picture carefully. If necessary, adjust any adjustment item above.  
Perform "Auto search Memory" on the owner's manual.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

#### 7. TEST SIGNAL SELECTION

- 1) Every pressing of – button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.

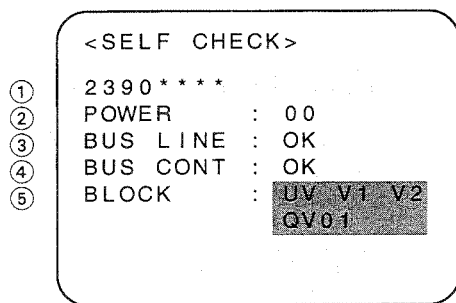
Signal off —→ NTSC signals (14 patterns)  
 ↑ PAL signals (14 patterns) ↓

| Signals                                                                                                                                                 | Picture |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <ul style="list-style-type: none"> <li>• Red raster</li> <li>• Green raster</li> <li>• Blue raster</li> <li>• All Black</li> <li>• All White</li> </ul> |         |
| <ul style="list-style-type: none"> <li>• Black &amp; White</li> </ul>                                                                                   |         |
| <ul style="list-style-type: none"> <li>• Black cross-bar</li> <li>• White cross-bar</li> <li>• Black cross-bar on green raster</li> </ul>               |         |
| <ul style="list-style-type: none"> <li>• Black cross-hatch</li> <li>• White cross-hatch</li> </ul>                                                      |         |
| <ul style="list-style-type: none"> <li>• Black cross-dot</li> <li>• White cross-dot</li> </ul>                                                          |         |
| <ul style="list-style-type: none"> <li>• H signal (white)</li> <li>• H signal (black)</li> </ul>                                                        |         |

\* The signals marked with  are not usable to display in the Test signal for some model.

## 8. SELF DIAGNOSTIC FUNCTION

- 1) Press "9" button on Remote Control during display of adjustment menu in the service mode.  
The diagnosis will begin to check if interface among IC's are executed properly.
- 2) During diagnosis, the following displays are shown.



- ① Part number of microcomputer (QA01)
- ② Operation number of protecting circuit ----"00" is normal.  
When indication is other than "00", overcurrent apt to flow, and circuit parts may possibly be damaged.
- ③ BUS LINE CHECK ----"OK" is normal.  
"SDA1-GND" ----- SDA-GND short circuit.  
"SCL1-GND" ----- SCL-GND short circuit.  
"SCL1-SDA1" ----- SCL-SDA short circuit.
- ④ BUS CONT ----"OK" is normal.  
When indication shows "Q ○○○ NG", the device with the number may possibly be damaged.
- ⑤ BLOCK

UV : TV reception mode

V1 : VIDEO 1 input mode (←①)

V2 : VIDEO 2 input mode (←②)

Indicated color of mode now selected : Green and Red  
Indicated color of other modes : White

Green : Normal

Red : The microcomputer operates to provide judgement of no video signal. The red color is still indicated though the signal is input, failure may exist in input signal line including QV01.

QV01 : In case of indication green ---Normal

In case of indication red with input signal---

Failure may exist in output line including QV01.

**NOTE:** Component which controls character display on screen is ICF01 (TELETEXT IC). If this display function fails to operate due to damage in ICF01, self diagnosis procedure is as follows.

(1) In case that power indicator is blinking with interval of 0.5 seconds, it means protecting circuit (Current limiter) is operating, and circuit components may possibly be damaged. Check related components.

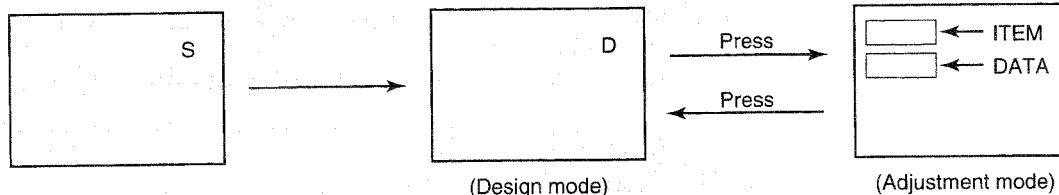
(2) In case that power indicator is blinking with interval of 1 second, Protecting circuit does not operate, but a part of Bus line does not operate normally. Check Bus line.

\* The items marked with ■ are not usable to display in the SELF DIAGNOSTIC FUCTION for some model.

# DESIGN MODE

## 1. ENTERING TO DESIGN MODE

- 1) Select the Service mode.
- 2) While pressing **X** or CALL button on Remote and press MENU button on TV.
- 3) Press MENU button on TV.



When QA02 is initialized, items "OPT0" and "OPT1" of DESIGN MODE are set to the data of the representative model of this chassis family.

Therefore, because ON-SCREEN specification remains in the state of the representative of model. This model is required to reset the data of items "OPT0" and "OPT1".

## 2. SELECTING THE ADJUSTING ITEMS

Every pressing of CHANNEL **▼** button in the design mode changes the adjustment items in the order of table-3. (**▲** button for reverse order)

Refer to table-3 for data of design mode.  
(See SETTING & ADJUSTING DATA on page 18)

## 3. ADJUSTING THE DATA

Pressing of VOLUME **▲** or **▼** button will change the value of data.

## ELECTRICAL ADJUSTMENTS

| ITEM                                                                                                                                     | ADJUSTMENT PROCEDURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOCUS VR ADJ                                                                                                                             | <ol style="list-style-type: none"> <li>1. Enter the service mode, then select any register item.</li> <li>2. Press the TV/VIDEO button on the Remote until the black cross-bar pattern appears on the screen.</li> <li>3. Adjust the FOCUS control (on T461) for well defined scanning lines on the picture screen.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SUB-BRIGHTNESS (BRTC)<br><br>Note: Constrict the picture height until the vertical retrace line appears adjusting the item HIT (HEIGHT). | <ol style="list-style-type: none"> <li>1. Set CONTRAST to minimum, and BRIGHTNESS to center by adjusting user controls.</li> <li>2. Set the TV in service mode to get white cross-bar of inside pattern.</li> <li>3. Select BRTC (brightness correction), and adjust the <math>\triangle</math> - /+ button to reduce the value so that white portion of inside pattern slightly light.</li> <li>4. Adjust <math>\triangle</math> - /+ button to increase the data value of BRTC, and set it just before the difference between the belt of vertical retrace and the border of black portion of inside pattern is visible. After that, return vertical height and contrast.</li> </ol> <div data-bbox="1107 551 1420 797" data-label="Image"> </div> |
| HORIZONTAL POSITION ADJUSTMENT (HPOS)<br><br>VERTICAL POSITION ADJUSTMENT (VPOS)                                                         | <ol style="list-style-type: none"> <li>1. Set the TV in service mode, and get black or white cross-bar signal with VIDEO button on remote hand unit.</li> <li>2. Select either HPOS (Horizontal picture phase) or VPOS (Vertical picture phase) with CHANNEL <math>\blacktriangle</math>, <math>\blacktriangledown</math> buttons, and adjust horizontal or vertical picture position in the center of screen with VOLUME <math>\triangle</math> - /+ buttons.</li> </ol> <div data-bbox="1031 931 1439 1238" data-label="Image"> </div>                                                                                                                                                                                                             |
| VERTICAL AMPLITUDE ADJUSTMENT (HIT)                                                                                                      | <ol style="list-style-type: none"> <li>1. Set the TV in service mode, and get black or white cross-hatch signal with VIDEO button on remote hand unit.</li> <li>2. Select HIT (Vertical amplitude) with CHANNEL <math>\blacktriangle</math>, <math>\blacktriangledown</math> buttons, and adjust vertical amplitude with VOLUME <math>\triangle</math> - /+ buttons so that vertical amplitude lacks a little.</li> <li>3. Adjust vertical amplitude with VOLUME <math>\triangle</math> - /+ buttons so that the first bar on cross-hatch signal touches edge of screen.</li> </ol> <div data-bbox="1000 1323 1420 1626" data-label="Image"> </div>                                                                                                  |

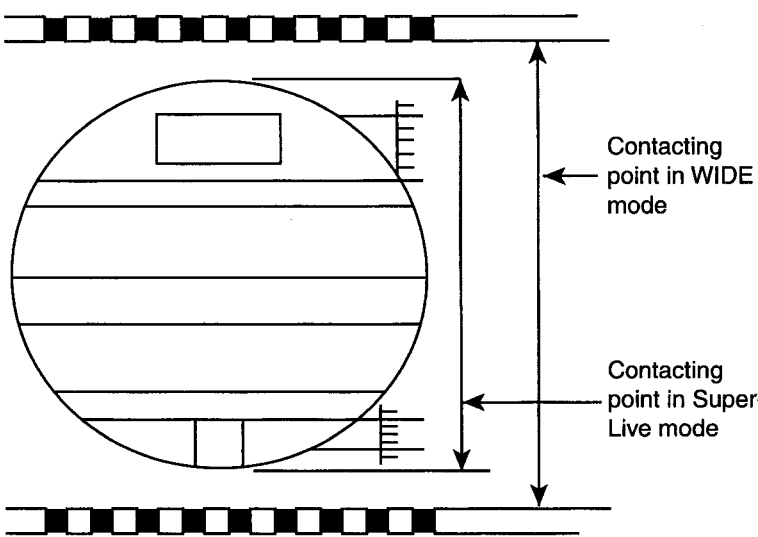
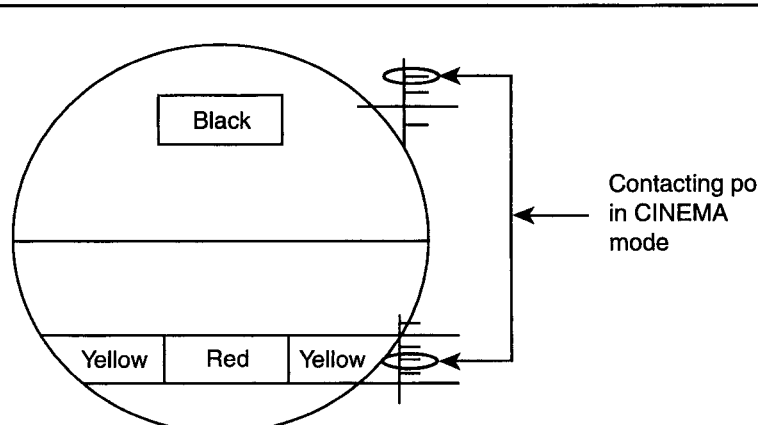
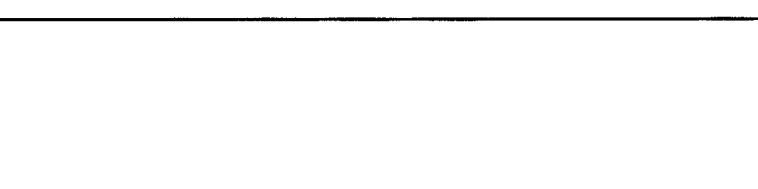
| ITEM                                                                                                                                                                                     | ADJUSTMENT PROCEDURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>WHITE BALANCE ADJUSTMENT</p> <ul style="list-style-type: none"> <li>● CUTOFF ADJUSTMENT<br/>(RCUT)<br/>(GCUT)<br/>(BCUT)</li> <li>● DRIVE ADJUSTMENT<br/>(GDRV)<br/>(BDRV)</li> </ul> | <ol style="list-style-type: none"> <li>1. Set Contrast to 40, and brightness to +20 by picture control.</li> <li>2. Set the TV in service mode, and get the inside W/B adjusting signal with VIDEO button.</li> <li>3. Select RCUT, GCUT and BCUT with CHANNEL ▲, ▼ buttons, to set individual values to Initial reference data, and to set GDRV and BDRV to Initial reference data with VOLUME ▲ – /+ buttons (See page 18).</li> <li>4. Press  button on the remote control and rotate Screen VR to get one slight horizontal line on screen.<br/>Note: Every pressing of  button provides Horizontal line picture and Normal picture alternately.</li> <li>5. Press  button to release horizontal line picture, and select the two other colors which did not light in the above step with CHANNEL ▲, ▼ buttons. Then tap VOLUME ▲ – /+ buttons so that three colors slightly light in the same level.</li> </ol> <p>※ To correct white balance in light area, select GDRV and BDRV with CHANNEL ▲, ▼ buttons to adjust.</p> <p>※ To correct white balance in dark area, perform fine adjustment of RCUT, GCUT and BCUT.</p> <div data-bbox="969 600 1372 907" style="border: 1px solid black; padding: 10px; margin-top: 20px;"> <div data-bbox="1036 607 1306 689" style="border: 1px solid black; padding: 5px; text-align: center;"> Light area check<br/>(to show white) </div> <div data-bbox="1083 831 1259 898" style="text-align: center; margin-top: 100px;"> Dark area check<br/>(to show black) </div> </div> |

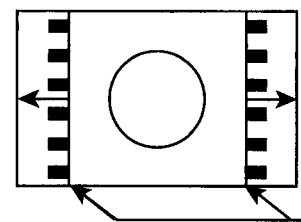
## C9SS: Series (Reference Factory Adjustments)

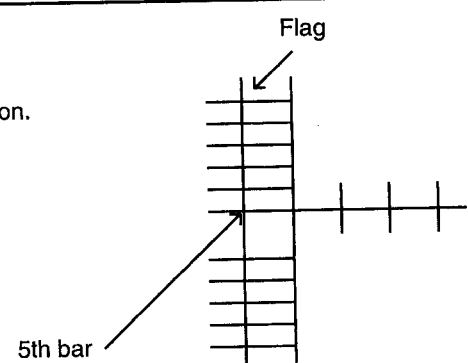
| Item                                                        | Name                                                      | Setting<br>(User control)                                                                               | Input signal                        | Measurement<br>point | Adjustment procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Adjustment standard                                                                                                                                   |
|-------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| [SCNT]                                                      | Sub-contrast                                              | Dynamic Mode<br>Screen size: Wide<br>Audio system: I                                                    | Sub-bright signal<br>(PAL-I signal) | TP46B                | ① Adjust the amplitude from the pedestal level to the white peak.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $2.5 \pm 0.1V_{p-p}$                                                                                                                                  |
| [BRTC]                                                      | Sub-bright center                                         | Dynamic Mode<br>Screen size: Wide                                                                       | Sub-bright signal                   | Screen<br>adjustment | ① Adjust the number of black collapsed lines in the sub-bright signal.<br>② This adjustment shall be made after the W/B and [SCNT] adjustments.                                                                                                                                                                                                                                                                                                                                                                                                                     | $4 \pm 1.5$ lines<br>Screen adjustment                                                                                                                |
| [COLP]                                                      | Sub-color center<br>PAL                                   | Dynamic Mode<br>Screen size: Wide                                                                       | Sub-bright signal<br>(PAL)          | TP46B                | ① Adjust the B-Y amplitude.<br>(Apply Y Mute at time of adjustment)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | $1.3 \pm 0.1V_{o-p}$                                                                                                                                  |
| Screen VR<br>[RCUT]<br>[GCUT]<br>[BCUT]<br>[GDRV]<br>[BDRV] | R cut-off<br>G cut-off<br>B cut-off<br>G drive<br>B drive | Dynamic Mode<br>Screen size: Wide<br>[RCUT]: 40<br>[GCUT]: 40<br>[BCUT]: 40<br>[GDRV]: 40<br>[BDRV]: 40 |                                     | Screen<br>adjustment | ① Enter Horizontal Straight-line Mode.<br>② Gradually increase the screen VR until either R, G, or B line starts to light up slightly.<br>③ Determine the screen VR adjustment position here.<br>④ Gradually increase remaining two screen VRs - except the line that lit up as mentioned in item ② above - until respective line starts to light up slightly. (Adjust until the screen becomes almost white.)<br>⑤ Exit from Horizontal Straight-line Mode.<br>⑥ Using CA100, repeat this adjustment until correct value is set to both the dark and bright parts. | Bright part<br>(103cd/m <sup>2</sup> )<br>8750K-0.002uv<br><br>Dark part<br>(17cd/m <sup>2</sup> )<br>8750K-0.002uv<br><br>Screen judgment<br>(CA100) |



| Item   | Name                      | Setting<br>(User control)         | Input signal    | Measurement<br>point | Adjustment procedure                                                                  | Adjustment standard                            |
|--------|---------------------------|-----------------------------------|-----------------|----------------------|---------------------------------------------------------------------------------------|------------------------------------------------|
| [BELL] | BELL filter               |                                   | SECAM color bar | TPM01                | ① Vary the [BELL] until the wave form on the synchroscope becomes flat.               | $100 \pm 10\%$                                 |
| [SBY]  | SECAM<br>B-Y black level  | Screen size: Wide                 | SECAM color bar | TP01                 | ① Vary the [SBY] until the level of the B/W signal becomes equal to the H. BLK level. | $0 \pm 10\text{mV}$                            |
| [SRY]  | SECAM<br>R-Y black level  | Screen size: Wide                 | SECAM color bar | TP02                 | ① Vary the [SRY] until the level of the B/W signal becomes equal to the H. BLK level. | $0 \pm 10\text{mV}$                            |
| [COLS] | Sub-color<br>Center SECAM | Dynamic Mode<br>Screen size: Wide | SECAM color bar | TP46B                | ① Adjust the B - Y amplitude.<br>(Apply Y Mute at time of adjustment)                 | $1.7 \pm 0.1\text{Vop}$<br>*(Pedestal to Peak) |

|          | Adjustment Item                             | Adjustment Procedure                                                                                                                                                                                         |                                                                                       |
|----------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Vertical | WIDE Mode<br>Vertical amplitude [HIT]       | PAL WG Phillips Pattern, User adjustment standard<br>Adjust the vertical amplitude by [HIT] so that both upper and lower flags will disappear from the screen.                                               |    |
|          | Vertical position [GMPO]                    | PAL Phillips Pattern, User adjustment standard<br>Adjust the vertical position [GMPO] so that the vertical screen position of Phillips Pattern will come to the center of the screen (see the right sketch). |                                                                                       |
|          | Super-live Mode<br>Vertical amplitude [HIT] | PAL Phillips Pattern, User adjustment standard<br>Adjust the vertical amplitude by [HIT] so that the top and bottom of the circle of Phillips Pattern will touch the CPT mask (see the right sketch).        |   |
|          | CINEMA Mode<br>Vertical amplitude [HIT]     | Phillips Pattern, User adjustment standard<br>Adjust the vertical amplitude by [HIT] so that the points shown in the right bottom sketch will touch the CRT mask (see the right sketch).                     |  |

| No | Applicable Models             | Adjustment Item                     | Adjustment Procedures                                                                                                                                                                                                                                                                                                                                                                                              |
|----|-------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 32WD98B<br>32WD98G<br>32WD96G | Focus adjustment (1)<br>HOR. FOCUS  | Conditions) PAL, RETMA signal<br>WIDE mode, User adjustment standard<br>Adjustment) With the center of the screen being the best focus, set the focus volume (F1) of the focus pack (Z410) to the fully counterclockwise position.                                                                                                                                                                                 |
|    |                               | Focus adjustment (2)<br>VERT. FOCUS | Conditions) PAL, RETMA signal<br>WIDE mode, User adjustment standard<br>Adjustment) With the center of the screen being the best focus, set the focus volume (F2) of the focus pack (Z410) to the fully counterclockwise position.                                                                                                                                                                                 |
|    | 28WD98B<br>28D96G             | Focus adjustment                    | Conditions) PAL, RETMA signal<br>WIDE mode, User adjustment standard<br>Adjustment) With the center of the screen being the best focus, set the focus volume of the flyback transformer (T461) to the fully counterclockwise position.                                                                                                                                                                             |
| 2  | All models                    | Vertical position adjustment        | Conditions) PAL, WG Phillips pattern<br>WIDE mode, User adjustment standard<br>Adjustment) Adjust [GMPO] so that both top and bottom positions touch the mask. (This adjustment shall be done with the CPT facing south or north. If this cannot be done, offset the difference.)                                                                                                                                  |
| 3  | All models                    | Horizontal position adjustment      | Conditions) PAL, WG Phillips pattern<br>WIDE mode, User adjustment standard<br>Adjustment) With the VR (R451), adjust the frame of both left and right flags to the mask. (If necessary, also adjust the horizontal amplitude.) <div data-bbox="1512 940 2060 1160">  <p>Adjust the frame of the flags to the mask.</p> </div> |

|            | Adjustment Item                                                                                                                                                                     | Adjustment Procedures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Horizontal | <p>WIDE mode<br/>(4:3 mode)</p> <p>Horizontal position (R451)<br/>Horizontal phase [HPOS]<br/>Horizontal amplitude [WIDE]<br/>Side DPC [PARA]<br/>Trapezoidal distortion [TRAP]</p> | <p>With the PAL, WG Phillips pattern, in the WIDE mode, adjust the horizontal amplitude so that the mask comes to the frames of left and right flags.</p> <p>With the PAL, WG Phillips pattern, in the WIDE mode, carry out the adjustment in order to minimize the side pincushion distortion and trapezoidal distortion.</p> <p>Note) This adjustment shall be done at the same time as the horizontal position adjustment item in the volume adjustment.<br/>If the horizontal position cannot be adjusted to the center by the volume, after having made the adjustment, use HPOS to adjust the horizontal amplitude until the flag frame touches the mask.</p> <p>Confirm the side pincushion distortion in the 4:3 mode.<br/>(If necessary, reconfirm it with observing the quality of the side panel in 4:3 mode.)</p> |
|            | <p>Super-Live mode<br/>Horizontal amplitude<br/>Side DPC<br/>Trapezoidal distortion</p>                                                                                             | <p>In the Super-Live, WIDE mode with the PAL Phillips pattern :</p> <p>Adjust the inside of the 5th bar within the left and right flags to the mask.<br/>Adjust to optimize the side pincushion distortion and trapezoidal distortion.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|            | <p>CINEMA mode<br/>Horizontal amplitude<br/>Side DPC<br/>Trapezoidal distortion</p>                                                                                                 | <p>In the CINEMA mode with the PAL Phillips pattern :</p> <p>Adjust the horizontal amplitude so that mask comes to the frames of the left and right flags.<br/>Adjust to optimize the side pincushion distortion and trapezoidal distortion.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## CIRCUIT CHECK

### HIGH VOLTAGE CHECK

**CAUTION:** There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST controls to minimum (zero beam current).
3. High voltage must be measured below (B) kV.

Refer to table 1 for high voltage (B).  
(See SETTING & ADJUSTING DATA on page 18)

4. Vary the BRIGHTNESS control to both extremes to be sure the high voltage does not exceed the limit under any conditions.

## CHAPTER 2 SPECIFIC INFORMATIONS

### SETTING & ADJUSTING DATA

#### 【 SAFETY INSTRUCTIONS 】

|                            |     | 32"       |
|----------------------------|-----|-----------|
| HIGH VOLTAGE AT ZERO BEAM: | (A) | 33.9 kV   |
| MAX HIGH VOLTAGE:          | (B) | 34.0 kV   |
| AV VOLTAGE                 | (C) | 220~240 V |

Table-1

#### 【 SERVICE MODE 】

##### ADJUSTING ITEMS AND DATAS IN THE SERVICE MODE:

| Item | Adjustment          | Reference data | Item | Adjustment          | Reference data |
|------|---------------------|----------------|------|---------------------|----------------|
| RCUT | R CUTOFF (B/W)      | 40H            | SBY  | SECAM B-Y           | 08H            |
| GCUT | G CUTOFF (B/W)      | 40H            | HPOS | 50Hz H-POSITION     | 30H            |
| BCUT | B CUTOFF (B/W)      | 40H            | VPOS | V-POSITION          | 00H            |
| RDRV | R DRIVE             | 40H            | HIT  | HEIGHT              | 2FH            |
| BDRV | B DRIVE             | 40H            | GMPS | V-POSITION (RASTER) | 37H            |
| CNTX | SUB CONTRAST MAX    | 7FH            | VLIN | V-LINEARITY         | 0EH            |
| BRTC | SUB BRIGHT CEN      | 80H            | VSC  | V-S CORRECTION      | 27H            |
| COLC | SUB COLOR CEN NTSC  | 00H            | VPS  | V-SHIFT             | 04H            |
| TNTC | SUB TINT CEN        | 48H            | VCP  | V-COMPENSATION      | 04H            |
| COLP | SUB COLOR CEN PAL   | 33H            | WID  | PICTURE WIDTH       | 2DH            |
| COLS | SUB COLOR CEN SECAM | 33H            | PARA | E-W PARABOLA        | 19H            |
| COLD | SUB COLOR CEN DTV   | 00H            | CNR  | E-W CORNER          | 13H            |
| SCOL | SUB COLOR           | 0FH            | TRAP | TRAPEZIUM           | 36H            |
| SCNT | SUB CONTRAST        | 0CH            | HCP  | H-COMPENSATION      | 02H            |
| BELL | SECAM BELL FILTER   | 80H            | VFC  | V-F CORRECTION      | 00H            |
| SRY  | SECAM R-Y           | 08H            |      |                     |                |

Table-2

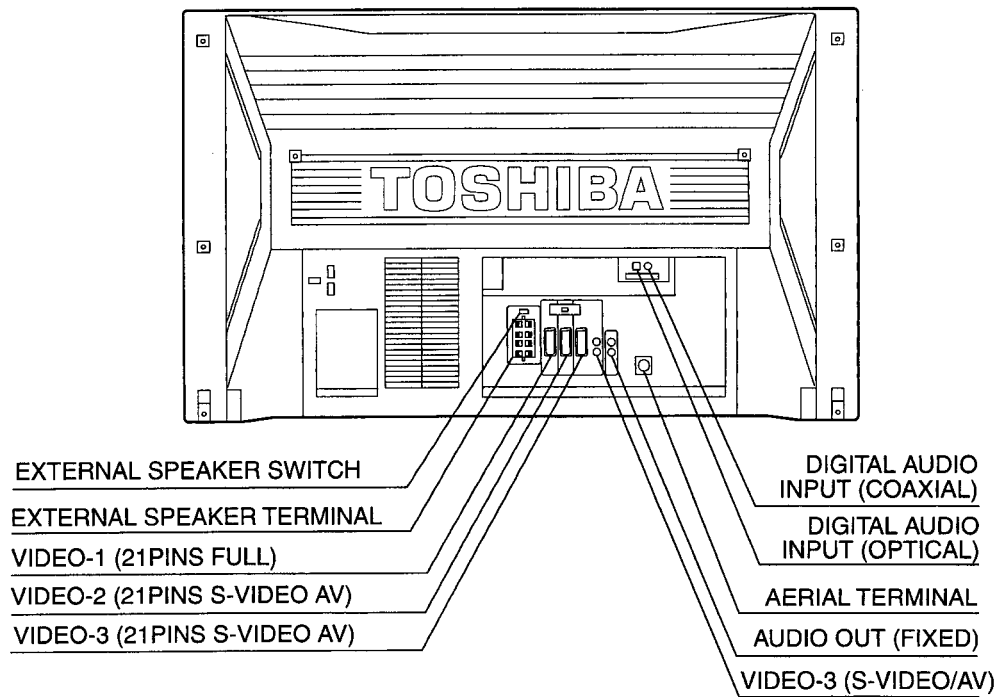
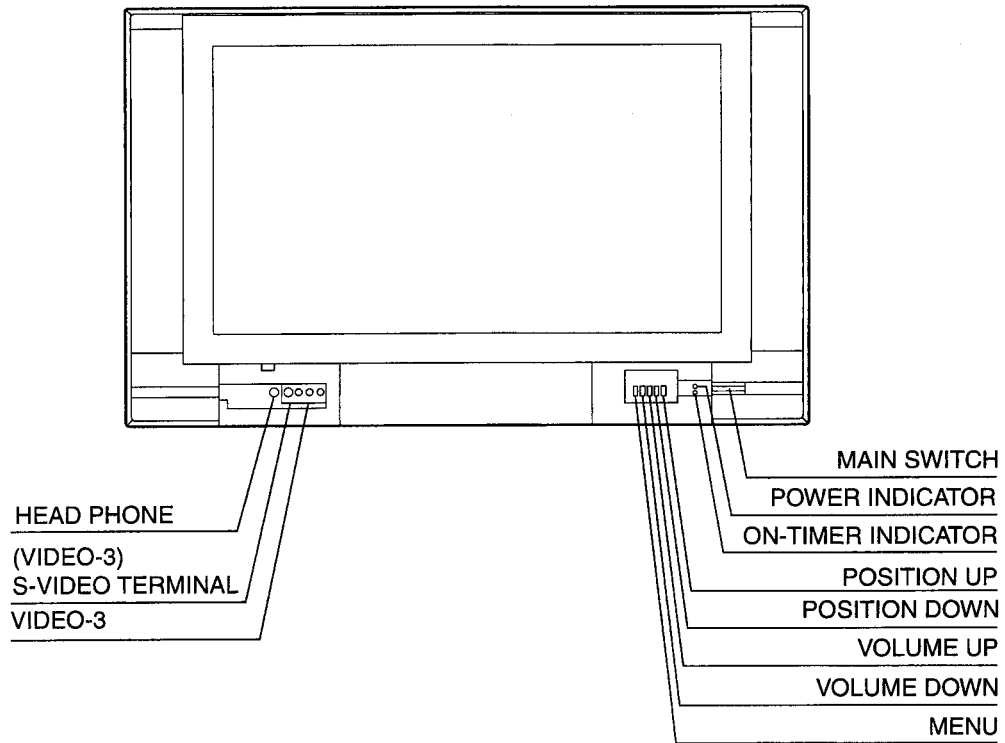
#### 【 DESIGN MODE 】

##### ADJUSTING ITEMS AND DATAS IN THE DESIGN MODE:

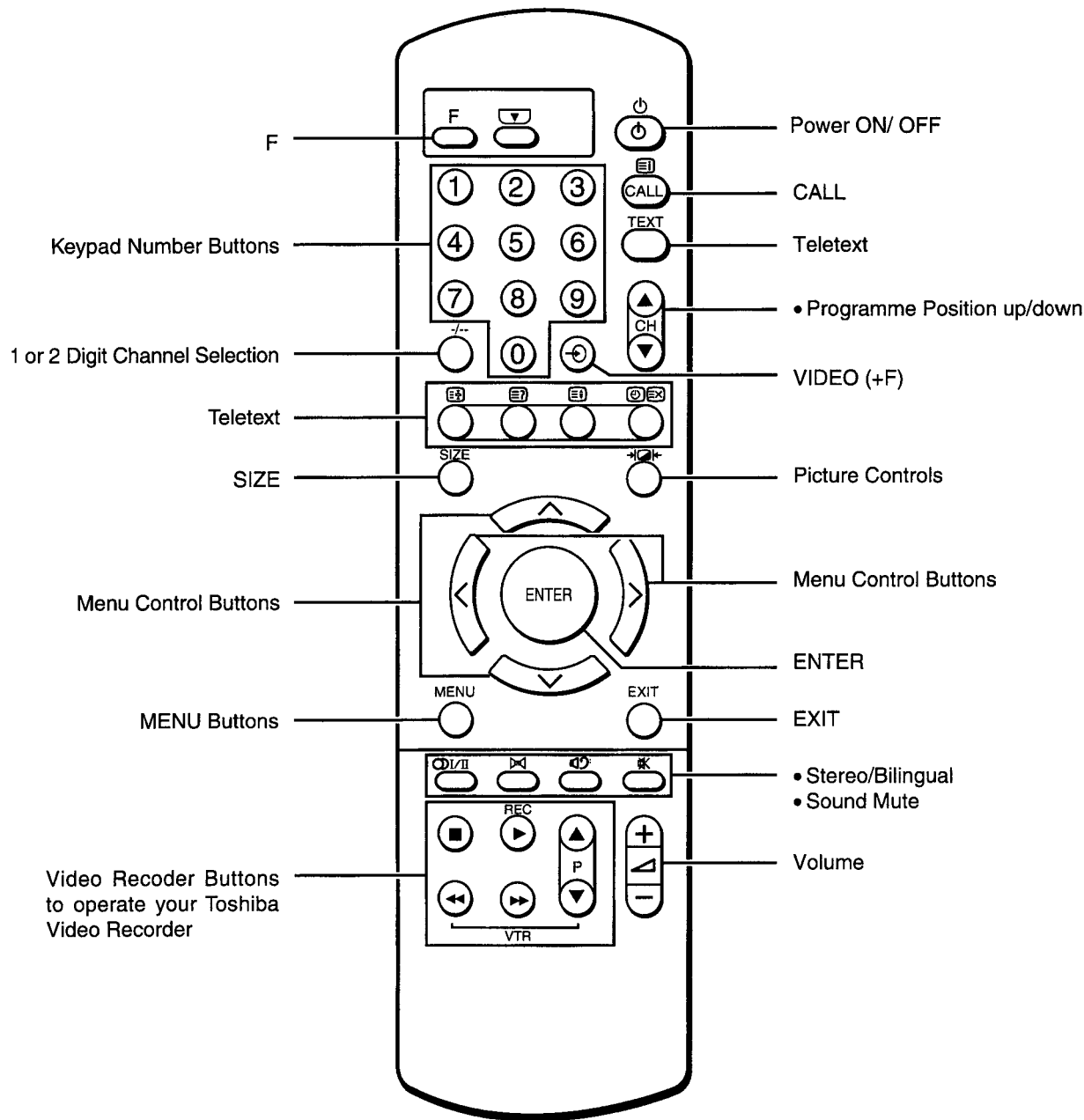
| Item                                              | Name of adjustment |             | Data | Remarks |
|---------------------------------------------------|--------------------|-------------|------|---------|
|                                                   |                    | Preset Data |      |         |
| * There are no adjusting item in the DESIGN MODE. |                    |             |      |         |

Table-3

## LOCATION OF CONTROLS

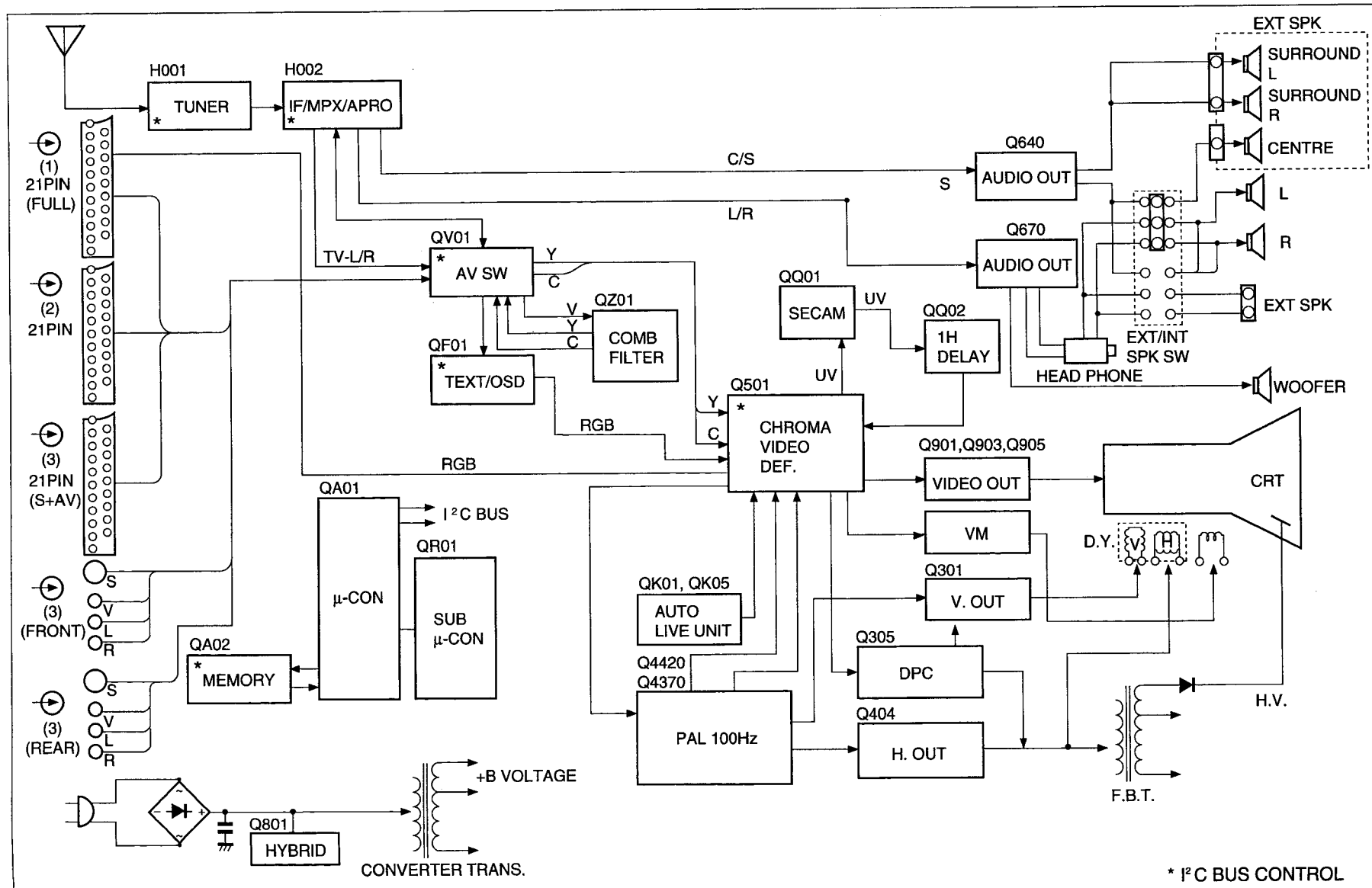


# Remote Controller





# CIRCUIT BLOCK DIAGRAM



# CHASSIS AND CABINET REPLACEMENT PARTS LIST

**WARNING:** BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

**CAUTION:** The international hazard symbols " $\Delta$ " in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

**NOTICE:**

- The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- The PC board assembly with \* mark is no longer available after the end of the production.

**Models : 32WD98B**

Capacitors ..... CD : Ceramic Disk      PF : Plastic Film      EL : Electrolytic  
Resistors ..... CF : Carbon Film      CC : Carbon Composition      MF : Metal Film  
                         OMF : Oxide Metal Film      VR : Variable Resistor      FR : Fusible Resistor

(All CD and PF capacitors are  $\pm 5\%$ , 50V and all resistors,  $\pm 5\%$ , 1/6W unless otherwise noted.)

| Location No.      | Part No. | Description                                 |
|-------------------|----------|---------------------------------------------|
| <b>CAPACITORS</b> |          |                                             |
| C101              | 24763221 | EL, 220 $\mu$ F, $\pm 20\%$ , 16V           |
| C102              | 24763221 | EL, 220 $\mu$ F, $\pm 20\%$ , 16V           |
| C105              | 24212102 | CD, 1000pF, $\pm 10\%$                      |
| C106              | 24797100 | EL, 10 $\mu$ F, $\pm 20\%$ , 50V            |
| C108              | 24793101 | EL, 100 $\mu$ F, $\pm 20\%$ , 10V           |
| C109              | 24232103 | CD, 0.01 $\mu$ F, $+80\%$ , $-20\%$         |
| C110              | 24797229 | EL, 2.2 $\mu$ F, $\pm 20\%$ , 50V           |
| C111              | 24797229 | EL, 2.2 $\mu$ F, $\pm 20\%$ , 50V           |
| C115              | 24232103 | CD, 0.01 $\mu$ F, $+80\%$ , $-20\%$         |
| C201              | 24567104 | PF, 0.1 $\mu$ F                             |
| C202              | 24814103 | Chip, 0.01 $\mu$ F, $+80\%$ , $-20\%$       |
| C203              | 24567104 | PF, 0.1 $\mu$ F                             |
| C204              | 24669010 | EL, 1 $\mu$ F, $\pm 20\%$ , 50V             |
| C205              | 24669229 | EL, 2.2 $\mu$ F, $\pm 20\%$ , 50V           |
| C206              | 24206220 | EL, 22 $\mu$ F, 50V                         |
| C212              | 24794100 | EL, 10 $\mu$ F, $\pm 20\%$ , 16V            |
| C214              | 24567334 | PF, 0.33 $\mu$ F                            |
| C215              | 24781101 | Chip, 100pF, SL                             |
| C219              | 24781100 | Chip, 10pF, $\pm 0.5\%$ , SL                |
| C220              | 24781100 | Chip, 10pF, $\pm 0.5\%$ , SL                |
| C221              | 24781100 | Chip, 10pF, $\pm 0.5\%$ , SL                |
| C228              | 24814103 | Chip, 0.01 $\mu$ F, $+80\%$ , $-20\%$       |
| C229              | 24669010 | EL, 1 $\mu$ F, $\pm 20\%$ , 50V             |
| C230              | 24763221 | EL, 220 $\mu$ F, $\pm 20\%$ , 16V           |
| C231              | 24814103 | Chip, 0.01 $\mu$ F, $+80\%$ , $-20\%$       |
| C232              | 24669010 | EL, 1 $\mu$ F, $\pm 20\%$ , 50V             |
| C260              | 24085967 | EL, 47 $\mu$ F, $\pm 20\%$ , 16V, Non-Polar |
| C261              | 24669101 | EL, 100 $\mu$ F, $\pm 20\%$ , 50V           |
| C262              | 24814103 | Chip, 0.01 $\mu$ F, $+80\%$ , $-20\%$       |
| C264              | 24781150 | Chip, 15pF, SL                              |
| C273              | 24206229 | EL, 2.2 $\mu$ F, 50V                        |
| C303              | 24214471 | CD, 470pF, $\pm 10\%$ , 500V                |
| C304              | 24082049 | PF, 0.047 $\mu$ F, 100V                     |
| C306              | 24073059 | EL, 3300 $\mu$ F, $\pm 20\%$ , 25V          |
| C308              | 24797221 | EL, 220 $\mu$ F, $\pm 20\%$ , 50V           |
| C310              | 24797222 | EL, 2200 $\mu$ F, $\pm 20\%$ , 50V          |
| C311              | 24567473 | PF, 0.047 $\mu$ F                           |
| C312              | 24567273 | PF, 0.027 $\mu$ F                           |
| C313              | 24082057 | PF, 0.22 $\mu$ F, 100V                      |

| Location No. | Part No. | Description                           |
|--------------|----------|---------------------------------------|
| C314         | 24793101 | EL, 100 $\mu$ F, $\pm 20\%$ , 10V     |
| C315         | 24797478 | EL, 0.47 $\mu$ F, $\pm 20\%$ , 50V    |
| C315         | 24212102 | CD, 1000pF, $\pm 10\%$                |
| C320         | 24797101 | EL, 100 $\mu$ F, $\pm 20\%$ , 50V     |
| C341         | 24797478 | EL, 0.47 $\mu$ F, $\pm 20\%$ , 50V    |
| C352         | 24617912 | EL, 2.2 $\mu$ F, $\pm 10\%$ , 50V     |
| C366         | 24082049 | PF, 0.047 $\mu$ F, 100V               |
| C370         | 24797101 | EL, 100 $\mu$ F, $\pm 20\%$ , 50V     |
| C371         | 24797100 | EL, 10 $\mu$ F, $\pm 20\%$ , 50V      |
| C403         | 24567103 | PF, 0.01 $\mu$ F                      |
| C404         | 24797229 | EL, 2.2 $\mu$ F, $\pm 20\%$ , 50V     |
| C410         | 24092341 | CD, 470pF, $\pm 10\%$ , 2kV           |
| C413         | 24214332 | CD, 3300pF, $\pm 10\%$ , 500V         |
| C416         | 24668101 | EL, 100 $\mu$ F, $\pm 20\%$ , 35V     |
| C417         | 24214391 | CD, 390pF, $\pm 10\%$ , 500V          |
| C419         | 24212102 | CD, 1000pF, $\pm 10\%$                |
| C420         | 24794101 | EL, 100 $\mu$ F, $\pm 20\%$ , 16V     |
| C421         | 24567104 | PF, 0.1 $\mu$ F                       |
| C423         | 24829473 | PF, 0.047 $\mu$ F, 400V               |
| C430         | 24814103 | Chip, 0.01 $\mu$ F, $+80\%$ , $-20\%$ |
| C431         | 24763102 | EL, 1000 $\mu$ F, $\pm 20\%$ , 16V    |
| C431         | 24232103 | CD, 0.01 $\mu$ F, $+80\%$ , $-20\%$   |
| C440         | 24082942 | PF, 3300pF, $\pm 3\%$ , 1500V         |
| C442         | 24082643 | PF, 0.18 $\mu$ F, $\pm 5\%$ , 400V    |
| C443         | 24082644 | PF, 0.2 $\mu$ F, 400V                 |
| C444         | 24082830 | PF, 3000pF, $\pm 3\%$ , 1800V         |
| C445         | 24828473 | PF, 0.047 $\mu$ F, 200V               |
| C446         | 24679330 | EL, 33 $\mu$ F, $\pm 20\%$ , 250V     |
| C447         | 24829223 | PF, 0.1 $\mu$ F, 400V                 |
| C448         | 24640908 | EL, 33 $\mu$ F, $\pm 20\%$ , 160V     |
| C460         | 24796331 | EL, 330 $\mu$ F, $\pm 20\%$ , 35V     |
| C461         | 24082835 | PF, 4700pF, $\pm 3\%$ , 1800V         |
| C462         | 24794222 | EL, 2200 $\mu$ F, $\pm 20\%$ , 16V    |
| C463         | 24212392 | CD, 3900pF, $\pm 10\%$                |
| C464         | 24640900 | EL, 4.7 $\mu$ F, $\pm 20\%$ , 100V    |
| C466         | 24082414 | PF, 5600pF, $\pm 3\%$ , 1250V         |
| C470         | 24794220 | EL, 22 $\mu$ F, $\pm 20\%$ , 16V      |
| C472         | 24567474 | PF, 0.47 $\mu$ F                      |
| C473         | 24669010 | EL, 1 $\mu$ F, $\pm 20\%$ , 50V       |
| C475         | 24095887 | PF, 0.01 $\mu$ F, $\pm 3\%$ , 630V    |
| C477         | 24591563 | PF, 0.056 $\mu$ F                     |

| Location No. | Part No. | Description                                     |
|--------------|----------|-------------------------------------------------|
| C478         | 24567334 | PF, 0.33 $\mu$ F                                |
| C479         | 24214471 | CD, 470pF, $\pm 10\%$ , 500V                    |
| C481         | 24085988 | EL, 1 $\mu$ F, $\pm 20\%$ , 50V,<br>Non-Polar   |
| C482         | 24212152 | CD, 1500pF, $\pm 10\%$                          |
| C484         | 24591152 | PF, 1500pF                                      |
| C491         | 24082749 | PF, 1.5 $\mu$ F, 250V                           |
| C492         | 24082645 | PF, 0.22 $\mu$ F, 400V                          |
| C494         | 24082644 | PF, 0.2 $\mu$ F, 400V                           |
| C495         | 24092343 | CD, 680pF, $\pm 10\%$ , 2kV                     |
| C496         | 24092343 | CD, 680pF, $\pm 10\%$ , 2kV                     |
| C501         | 24781101 | Chip, 100pF, SL                                 |
| C502         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%                  |
| C503         | 24763221 | EL, 220 $\mu$ F, $\pm 20\%$ , 16V               |
| C504         | 24590222 | PF, 2200pF                                      |
| C505         | 24774120 | Chip, 12pF, CH                                  |
| C507         | 24774120 | Chip, 12pF, CH                                  |
| C508         | 24669010 | EL, 1 $\mu$ F, $\pm 20\%$ , 50V                 |
| C509         | 24763101 | EL, 100 $\mu$ F, $\pm 20\%$ , 16V               |
| C510         | 24763101 | EL, 100 $\mu$ F, $\pm 20\%$ , 16V               |
| C511         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%                  |
| C512         | 24206228 | EL, 0.22 $\mu$ F, 50V                           |
| C513         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%                  |
| C514         | 24567104 | PF, 0.1 $\mu$ F                                 |
| C515         | 24567104 | PF, 0.1 $\mu$ F                                 |
| C516         | 24781102 | Chip, 1000pF, SL                                |
| C517         | 24774010 | Chip, 1pF                                       |
| C518         | 24436101 | CD, 100pF                                       |
| C519         | 24774010 | Chip, 1pF                                       |
| C520         | 24781102 | Chip, 1000pF, SL                                |
| C521         | 24781102 | Chip, 1000pF, SL                                |
| C524         | 24781122 | Chip, 1200pF                                    |
| C525         | 24774181 | Chip, 180pF                                     |
| C554         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%                  |
| C555         | 24669010 | EL, 1 $\mu$ F, $\pm 20\%$ , 50V                 |
| C556         | 24669010 | EL, 1 $\mu$ F, $\pm 20\%$ , 50V                 |
| C613         | 24794471 | EL, 470 $\mu$ F, $\pm 20\%$ , 16V               |
| C614         | 24762222 | EL, 2200 $\mu$ F, $\pm 20\%$ , 10V              |
| C615         | 24085960 | EL, 4.7 $\mu$ F, $\pm 20\%$ , 50V,<br>Non-Polar |
| C616         | 24567183 | PF, 0.018 $\mu$ F                               |
| C617         | 24590102 | PF, 1000pF                                      |
| C618         | 24567823 | PF, 0.082 $\mu$ F                               |
| C619         | 24794221 | EL, 220 $\mu$ F, $\pm 20\%$ , 16V               |
| C620         | 24794101 | EL, 100 $\mu$ F, $\pm 20\%$ , 16V               |
| C631         | 24797010 | EL, 1 $\mu$ F, $\pm 20\%$ , 50V                 |
| C632         | 24797479 | EL, 4.7 $\mu$ F, $\pm 20\%$ , 50V               |
| C633         | 24591124 | PF, 0.12 $\mu$ F                                |
| C634         | 24668471 | EL, 470 $\mu$ F, $\pm 20\%$ , 35V               |
| C641         | 24206010 | EL, 1 $\mu$ F, 50V                              |
| C644         | 24797010 | EL, 1 $\mu$ F, $\pm 20\%$ , 50V                 |
| C645         | 24795470 | EL, 47 $\mu$ F, $\pm 20\%$ , 25V                |
| C647         | 24591102 | PF, 1000pF                                      |
| C648         | 24590102 | PF, 1000pF                                      |
| C649         | 24797229 | EL, 2.2 $\mu$ F, $\pm 20\%$ , 50V               |
| C650         | 24796102 | EL, 1000 $\mu$ F, $\pm 20\%$ , 35V              |
| C651         | 24668471 | EL, 470 $\mu$ F, $\pm 20\%$ , 35V               |
| C652         | 24668471 | EL, 470 $\mu$ F, $\pm 20\%$ , 35V               |
| C654         | 24591124 | PF, 0.12 $\mu$ F                                |
| C655         | 24591124 | PF, 0.12 $\mu$ F                                |
| C656         | 24232103 | CD, 0.01 $\mu$ F, +80%, -20%                    |
| C657         | 24797229 | EL, 2.2 $\mu$ F, $\pm 20\%$ , 50V               |
| C660         | 24797229 | EL, 2.2 $\mu$ F, $\pm 20\%$ , 50V               |
| C661         | 24797478 | EL, 0.47 $\mu$ F, $\pm 20\%$ , 50V              |

| Location No. | Part No. | Description                           |
|--------------|----------|---------------------------------------|
| C662         | 24206229 | EL, 2.2 $\mu$ F, 50V                  |
| C663         | 24206229 | EL, 2.2 $\mu$ F, 50V                  |
| C664         | 24203100 | EL, 10 $\mu$ F, $\pm 20\%$ , 16V      |
| C665         | 24206229 | EL, 2.2 $\mu$ F, 50V                  |
| C666         | 24206229 | EL, 2.2 $\mu$ F, 50V                  |
| C667         | 24212102 | CD, 1000pF, $\pm 10\%$                |
| C667         | 24206229 | EL, 2.2 $\mu$ F, 50V                  |
| C668         | 24590102 | PF, 1000pF                            |
| C668         | 24212102 | CD, 1000pF, $\pm 10\%$                |
| C669         | 24797330 | EL, 33 $\mu$ F, $\pm 20\%$ , 50V      |
| C670         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%        |
| C670         | 24797330 | EL, 33 $\mu$ F, $\pm 20\%$ , 50V      |
| C671         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%        |
| C671         | 24797010 | EL, 1 $\mu$ F, $\pm 20\%$ , 50V       |
| C672         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%        |
| C673         | 24781102 | Chip, 1000pF, SL                      |
| C673         | 24797010 | EL, 1 $\mu$ F, $\pm 20\%$ , 50V       |
| C674         | 24781102 | Chip, 1000pF, SL                      |
| C674         | 24797010 | EL, 1 $\mu$ F, $\pm 20\%$ , 50V       |
| C675         | 24781102 | Chip, 1000pF, SL                      |
| C675         | 24795470 | EL, 47 $\mu$ F, $\pm 20\%$ , 25V      |
| C676         | 24797479 | EL, 4.7 $\mu$ F, $\pm 20\%$ , 50V     |
| C676         | 24781102 | Chip, 1000pF, SL                      |
| C677         | 24590102 | PF, 1000pF                            |
| C677         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%        |
| C678         | 24781102 | Chip, 1000pF, SL                      |
| C678         | 24590102 | PF, 1000pF                            |
| C679         | 24781102 | Chip, 1000pF, SL                      |
| C679         | 24538104 | PF, 0.1 $\mu$ F                       |
| C680         | 24668102 | EL, 1000 $\mu$ F, $\pm 20\%$ , 35V    |
| C681         | 24668471 | EL, 470 $\mu$ F, $\pm 20\%$ , 35V     |
| C681         | 24781102 | Chip, 1000pF, SL                      |
| C682         | 24781102 | Chip, 1000pF, SL                      |
| C682         | 24668471 | EL, 470 $\mu$ F, $\pm 20\%$ , 35V     |
| C683         | 24668102 | EL, 1000 $\mu$ F, $\pm 20\%$ , 35V    |
| C685         | 24591124 | PF, 0.12 $\mu$ F                      |
| C686         | 24591124 | PF, 0.12 $\mu$ F                      |
| C687         | 24232103 | CD, 0.01 $\mu$ F, +80%, -20%          |
| C688         | 24203220 | EL, 22 $\mu$ F, $\pm 20\%$ , 16V      |
| C689         | 24591124 | PF, 0.12 $\mu$ F                      |
| C704         | 24591822 | PF, 8200pF                            |
| C705         | 24797229 | EL, 2.2 $\mu$ F, $\pm 20\%$ , 50V     |
| C707         | 24794470 | EL, 47 $\mu$ F, $\pm 20\%$ , 16V      |
| C712         | 24666470 | EL, 47 $\mu$ F, $\pm 20\%$ , 16V      |
| C713         | 24790100 | EL, 10 $\mu$ F, $\pm 20\%$ , 160V     |
| C714         | 24436101 | CD, 100pF                             |
| C715         | 24214472 | CD, 4700pF, $\pm 10\%$ , 500V         |
| C716         | 24436101 | CD, 100pF                             |
| C717         | 24214472 | CD, 4700pF, $\pm 10\%$ , 500V         |
| C718         | 24794470 | EL, 47 $\mu$ F, $\pm 20\%$ , 16V      |
| C719         | 24435151 | CD, 150pF, 500V                       |
| C720         | 24790100 | EL, 10 $\mu$ F, $\pm 20\%$ , 160V     |
| C721         | 24794470 | EL, 47 $\mu$ F, $\pm 20\%$ , 16V      |
| △C801        | 24082927 | PF, 0.22 $\mu$ F, $\pm 20\%$ , AC275V |
| △C802        | 24082927 | PF, 0.22 $\mu$ F, $\pm 20\%$ , AC275V |
| C805         | 24092281 | CD, 4700pF, $\pm 20\%$ , AC25V        |
| C806         | 24092281 | CD, 4700pF, $\pm 20\%$ , AC25V        |
| C808         | 24667331 | EL, 330 $\mu$ F, $\pm 20\%$ , 25V     |
| C810         | 24763102 | EL, 1000 $\mu$ F, $\pm 20\%$ , 16V    |
| C810         | 24086063 | EL, 330 $\mu$ F, $\pm 20\%$ , 400V    |
| △C813        | 24092555 | CD, 1000pF, $\pm 10\%$ , AC25V        |
| △C814        | 24092555 | CD, 1000pF, $\pm 10\%$ , AC25V        |
| C817         | 24092339 | CD, 330pF, $\pm 10\%$ , 2kV           |
| C818         | 24095931 | PF, 2200pF, 1250V                     |

| Location No. | Part No. | Description                      |
|--------------|----------|----------------------------------|
| C819         | 24676220 | EL, 22 $\mu$ F, $\pm$ 20%, 100V  |
| C821         | 24214471 | CD, 470pF, $\pm$ 10%, 500V       |
| C822         | 24567474 | PF, 0.47 $\mu$ F                 |
| C823         | 24214471 | CD, 470pF, $\pm$ 10%, 500V       |
| C829         | 24590272 | PF, 2700pF                       |
| C831         | 24666470 | EL, 47 $\mu$ F, $\pm$ 20%, 16V   |
| C832         | 24666470 | EL, 47 $\mu$ F, $\pm$ 20%, 16V   |
| C833         | 24669100 | EL, 10 $\mu$ F, $\pm$ 20%, 50V   |
| C834         | 24667100 | EL, 10 $\mu$ F, $\pm$ 20%, 25V   |
| C835         | 24666470 | EL, 47 $\mu$ F, $\pm$ 20%, 16V   |
| C836         | 24794470 | EL, 47 $\mu$ F, $\pm$ 20%, 16V   |
| C841         | 24669100 | EL, 10 $\mu$ F, $\pm$ 20%, 50V   |
| C842         | 24669100 | EL, 10 $\mu$ F, $\pm$ 20%, 50V   |
| C843         | 24567104 | PF, 0.1 $\mu$ F                  |
| C846         | 24567224 | PF, 0.22 $\mu$ F                 |
| C872         | 24669221 | EL, 220 $\mu$ F, $\pm$ 20%, 50V  |
| C884         | 24086916 | EL, 330 $\mu$ F, $\pm$ 20%, 160V |
| △ C885       | 24214471 | CD, 470pF, $\pm$ 10%, 500V       |
| C887         | 24214471 | CD, 470pF, $\pm$ 10%, 500V       |
| C889         | 24669102 | EL, 1000 $\mu$ F, $\pm$ 20%, 50V |
| C890         | 24667222 | EL, 2200 $\mu$ F, $\pm$ 20%, 25V |
| △ C891       | 24667332 | EL, 3300 $\mu$ F, $\pm$ 20%, 25V |
| C892         | 24667222 | EL, 2200 $\mu$ F, $\pm$ 20%, 25V |
| C893         | 24092337 | CD, 220pF, $\pm$ 10%, 2kV        |
| C894         | 24669102 | EL, 1000 $\mu$ F, $\pm$ 20%, 50V |
| C895         | 24669470 | EL, 47 $\mu$ F, $\pm$ 20%, 50V   |
| C896         | 24214471 | CD, 470pF, $\pm$ 10%, 500V       |
| C897         | 24667332 | EL, 3300 $\mu$ F, $\pm$ 20%, 25V |
| C898         | 24567224 | PF, 0.22 $\mu$ F                 |
| C899         | 24214471 | CD, 470pF, $\pm$ 10%, 500V       |
| C902         | 24092345 | CD, 1000pF, $\pm$ 10%, 2kV       |
| C904         | 24436391 | CD, 390pF                        |
| C905         | 24436391 | CD, 390pF                        |
| C907         | 24436391 | CD, 390pF                        |
| C909         | 24679220 | EL, 22 $\mu$ F, $\pm$ 20%, 250V  |
| C910         | 24797478 | EL, 0.47 $\mu$ F, $\pm$ 20%, 50V |
| C911         | 24203100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V   |
| C912         | 24794102 | EL, 1000 $\mu$ F, $\pm$ 20%, 16V |
| C913         | 24763102 | EL, 1000 $\mu$ F, $\pm$ 20%, 16V |
| C914         | 24212103 | CD, 0.01 $\mu$ F, $\pm$ 10%      |
| C915         | 24092398 | CD, 0.1 $\mu$ F, +80%, -20%      |
| C920         | 24591104 | PF, 0.1 $\mu$ F                  |
| C921         | 24591104 | PF, 0.1 $\mu$ F                  |
| C923         | 24794470 | EL, 47 $\mu$ F, $\pm$ 20%, 16V   |
| C924         | 24666470 | EL, 47 $\mu$ F, $\pm$ 20%, 16V   |
| C925         | 24794470 | EL, 47 $\mu$ F, $\pm$ 20%, 16V   |
| C930         | 24214101 | CD, 100pF, $\pm$ 10%, 500V       |
| C931         | 24214101 | CD, 100pF, $\pm$ 10%, 500V       |
| C940         | 24436390 | CD, 39pF                         |
| C4371        | 24590393 | PF, 0.039 $\mu$ F                |
| C4373        | 24539474 | PF, 0.47 $\mu$ F                 |
| C4374        | 24617915 | EL, 1 $\mu$ F, $\pm$ 10%, 50V    |
| C4375        | 24591203 | PF, 0.02 $\mu$ F                 |
| C4376        | 24232103 | CD, 0.01 $\mu$ F, +80%, -20%     |
| C4377        | 24590102 | PF, 1000pF                       |
| C4378        | 24617787 | EL, 470 $\mu$ F, $\pm$ 20%, 16V  |
| C4379        | 24794101 | EL, 100 $\mu$ F, $\pm$ 20%, 16V  |
| C4380        | 24212102 | CD, 1000pF, $\pm$ 10%            |
| C4382        | 24539684 | PF, 0.68 $\mu$ F                 |
| C4405        | 24590103 | PF, 0.01 $\mu$ F                 |
| C4408        | 24590103 | PF, 0.01 $\mu$ F                 |
| C4418        | 24590103 | PF, 0.01 $\mu$ F                 |
| C4425        | 24797010 | EL, 1 $\mu$ F, $\pm$ 20%, 50V    |
| C4426        | 24797101 | EL, 100 $\mu$ F, $\pm$ 20%, 50V  |

| Location No. | Part No. | Description                                   |
|--------------|----------|-----------------------------------------------|
| C4447        | 24590103 | PF, 0.01 $\mu$ F                              |
| C4447        | 24590103 | PF, 0.01 $\mu$ F                              |
| C4461        | 24567104 | PF, 0.1 $\mu$ F                               |
| C4490        | 24082646 | PF, 0.24 $\mu$ F, $\pm$ 5%, 400V              |
| C4491        | 24082646 | PF, 0.24 $\mu$ F, $\pm$ 5%, 400V              |
| CA12         | 24436101 | CD, 100pF                                     |
| CA13         | 24436101 | CD, 100pF                                     |
| CA14         | 24232103 | CD, 0.01 $\mu$ F, +80%, -20%                  |
| CA15         | 24436101 | CD, 100pF                                     |
| CA16         | 24436101 | CD, 100pF                                     |
| CA17         | 24436101 | CD, 100pF                                     |
| CA33         | 24232103 | CD, 0.01 $\mu$ F, +80%, -20%                  |
| CA42         | 24794100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V                |
| CA43         | 24232103 | CD, 0.01 $\mu$ F, +80%, -20%                  |
| CA44         | 24232103 | CD, 0.01 $\mu$ F, +80%, -20%                  |
| CA68         | 24794100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V                |
| CA69         | 24232103 | CD, 0.01 $\mu$ F, +80%, -20%                  |
| CB01         | 24794470 | EL, 47 $\mu$ F, $\pm$ 20%, 16V                |
| CB01         | 24794470 | EL, 47 $\mu$ F, $\pm$ 20%, 16V                |
| CB90         | 24232103 | CD, 0.01 $\mu$ F, +80%, -20%                  |
| CC08         | 24781102 | Chip, 1000pF, SL                              |
| CC09         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%                |
| CC10         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%                |
| CC42         | 24781220 | Chip, 22pF, SL                                |
| CC43         | 24567184 | PF, 0.18 $\mu$ F                              |
| CD88         | 24794100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V                |
| CD89         | 24567104 | PF, 0.1 $\mu$ F                               |
| CF03         | 24567104 | PF, 0.1 $\mu$ F                               |
| CF04         | 24766101 | PF, 0.1 $\mu$ F                               |
| CF05         | 24766101 | PF, 0.1 $\mu$ F                               |
| CF06         | 24774220 | Chip, 22pF, CH                                |
| CF07         | 24774220 | Chip, 22pF, CH                                |
| CF08         | 24567104 | PF, 0.1 $\mu$ F                               |
| CF09         | 24567104 | PF, 0.1 $\mu$ F                               |
| CF10         | 24206100 | EL, 10 $\mu$ F, 50V                           |
| CF11         | 24567104 | PF, 0.1 $\mu$ F                               |
| CF12         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%                |
| CF14         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%                |
| CF16         | 24567224 | PF, 0.22 $\mu$ F                              |
| CF17         | 24794101 | EL, 100 $\mu$ F, $\pm$ 20%, 16V               |
| CF18         | 24794101 | EL, 100 $\mu$ F, $\pm$ 20%, 16V               |
| CF19         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%                |
| CK01         | 24781101 | Chip, 100pF, SL                               |
| CK03         | 24781330 | Chip, 33pF, SL                                |
| CK08         | 24781330 | Chip, 33pF, SL                                |
| CK09         | 24781330 | Chip, 33pF, SL                                |
| CK10         | 24781330 | Chip, 33pF, SL                                |
| CK12         | 24781330 | Chip, 33pF, SL                                |
| CK13         | 24781330 | Chip, 33pF, SL                                |
| CK14         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%                |
| CK15         | 24781330 | Chip, 33pF, SL                                |
| CK16         | 24781101 | Chip, 100pF, SL                               |
| CK17         | 24781330 | Chip, 33pF, SL                                |
| CK18         | 24781330 | Chip, 33pF, SL                                |
| CK19         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%                |
| CK20         | 24794100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V                |
| CK21         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%                |
| CK26         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%                |
| CK30         | 24085961 | EL, 10 $\mu$ F, $\pm$ 20%, 50V,<br>Non-Polar  |
| CK31         | 24085958 | EL, 1.0 $\mu$ F, $\pm$ 20%, 50V,<br>Non-Polar |
| CK32         | 24085958 | EL, 1.0 $\mu$ F, $\pm$ 20%, 50V,<br>Non-Polar |

| Location No. | Part No. | Description                                |
|--------------|----------|--------------------------------------------|
| CK50         | 24795470 | EL, 47 $\mu$ F, $\pm$ 20%, 25V             |
| CK51         | 24567104 | PF, 0.1 $\mu$ F                            |
| CK52         | 24567104 | PF, 0.1 $\mu$ F                            |
| CK53         | 24085958 | EL, 1.0 $\mu$ F, $\pm$ 20%, 50V, Non-Polar |
| CK54         | 24781561 | Chip, 560pF, SL                            |
| CK55         | 24797010 | EL, 1 $\mu$ F, $\pm$ 20%, 50V              |
| CK56         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%             |
| CK57         | 24781681 | Chip, 680pF, SL                            |
| CK58         | 24781331 | Chip, 330pF, SL                            |
| CK60         | 24567104 | PF, 0.1 $\mu$ F                            |
| CK61         | 24781100 | Chip, 10pF, $\pm$ 0.5%, SL                 |
| CQ18         | 24781820 | Chip, 82pF, SL                             |
| CQ19         | 24567103 | PF, 0.01 $\mu$ F                           |
| CQ20         | 24567104 | PF, 0.1 $\mu$ F                            |
| CQ21         | 24794470 | EL, 47 $\mu$ F, $\pm$ 20%, 16V             |
| CQ22         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%             |
| CQ23         | 24567104 | PF, 0.1 $\mu$ F                            |
| CQ24         | 24567104 | PF, 0.1 $\mu$ F                            |
| CQ25         | 24797100 | EL, 10 $\mu$ F, $\pm$ 20%, 50V             |
| CQ26         | 24567104 | PF, 0.1 $\mu$ F                            |
| CQ27         | 24567104 | PF, 0.1 $\mu$ F                            |
| CQ28         | 24797478 | EL, 0.47 $\mu$ F, $\pm$ 20%, 50V           |
| CQ29         | 24794101 | EL, 100 $\mu$ F, $\pm$ 20%, 16V            |
| CQ30         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%             |
| CQ31         | 24797478 | EL, 0.47 $\mu$ F, $\pm$ 20%, 50V           |
| CQ32         | 24590103 | PF, 0.01 $\mu$ F                           |
| CQ33         | 24567104 | PF, 0.1 $\mu$ F                            |
| CQ34         | 24567104 | PF, 0.1 $\mu$ F                            |
| CQ35         | 24206478 | EL, 0.47 $\mu$ F, 50V                      |
| CQ36         | 24206478 | EL, 0.47 $\mu$ F, 50V                      |
| CQ37         | 24669010 | EL, 1 $\mu$ F, $\pm$ 20%, 50V              |
| CQ38         | 24669010 | EL, 1 $\mu$ F, $\pm$ 20%, 50V              |
| CQ39         | 24669010 | EL, 1 $\mu$ F, $\pm$ 20%, 50V              |
| CQ61         | 24781102 | Chip, 1000pF, SL                           |
| CQ62         | 24781470 | Chip, 47pF, SL                             |
| CQ63         | 24781470 | Chip, 47pF, SL                             |
| CR01         | 24567104 | PF, 0.1 $\mu$ F                            |
| CR01         | 24206010 | EL, 1 $\mu$ F, 50V                         |
| CR02         | 24567104 | PF, 0.1 $\mu$ F                            |
| CR02         | 24232103 | CD, 0.01 $\mu$ F, +80%, -20%               |
| CR03         | 24436101 | CD, 100pF                                  |
| CR03         | 24567104 | PF, 0.1 $\mu$ F                            |
| CR04         | 24567104 | PF, 0.1 $\mu$ F                            |
| CR05         | 24567104 | PF, 0.1 $\mu$ F                            |
| CR06         | 24567104 | PF, 0.1 $\mu$ F                            |
| CR07         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%             |
| CR08         | 24794100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V             |
| CR09         | 24538104 | PF, 0.1 $\mu$ F                            |
| CR09         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%             |
| CR10         | 24794470 | EL, 47 $\mu$ F, $\pm$ 20%, 16V             |
| CR11         | 24538104 | PF, 0.1 $\mu$ F                            |
| CR12         | 24567104 | PF, 0.1 $\mu$ F                            |
| CR13         | 24567104 | PF, 0.1 $\mu$ F                            |
| CR14         | 24567104 | PF, 0.1 $\mu$ F                            |
| CR18         | 24538104 | PF, 0.1 $\mu$ F                            |
| CR19         | 24538104 | PF, 0.1 $\mu$ F                            |
| CR20         | 24538104 | PF, 0.1 $\mu$ F                            |
| CS01         | 24085944 | EL, 2.2 $\mu$ F, $\pm$ 20%, 50V, Non-Polar |
| CS02         | 24085944 | EL, 2.2 $\mu$ F, $\pm$ 20%, 50V, Non-Polar |
| CS03         | 24206229 | EL, 2.2 $\mu$ F, 50V                       |
| CS04         | 24206229 | EL, 2.2 $\mu$ F, 50V                       |

| Location No. | Part No. | Description                               |
|--------------|----------|-------------------------------------------|
| CS05         | 24206229 | EL, 2.2 $\mu$ F, 50V                      |
| CS06         | 24206229 | EL, 2.2 $\mu$ F, 50V                      |
| CS07         | 24206229 | EL, 2.2 $\mu$ F, 50V                      |
| CS08         | 24206229 | EL, 2.2 $\mu$ F, 50V                      |
| CS12         | 24781102 | Chip, 1000pF, SL                          |
| CS13         | 24781102 | Chip, 1000pF, SL                          |
| CS14         | 24206100 | EL, 10 $\mu$ F, 50V                       |
| CS15         | 24206100 | EL, 10 $\mu$ F, 50V                       |
| CS17         | 24203100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V            |
| CS18         | 24203100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V            |
| CS19         | 24206478 | EL, 0.47 $\mu$ F, 50V                     |
| CS22         | 24203100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V            |
| CS23         | 24203100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V            |
| CV01         | 24567103 | PF, 0.01 $\mu$ F                          |
| CV02         | 24085970 | EL, 10 $\mu$ F, $\pm$ 20%, 16V, Non-Polar |
| CV03         | 24203100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V            |
| CV04         | 24203100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V            |
| CV05         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%            |
| CV06         | 24203100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V            |
| CV08         | 24763102 | EL, 1000 $\mu$ F, $\pm$ 20%, 16V          |
| CV10         | 24085970 | EL, 10 $\mu$ F, $\pm$ 20%, 16V, Non-Polar |
| CV11         | 24781331 | Chip, 330pF, SL                           |
| CV12         | 24092178 | Chip, 0.1 $\mu$ F, $\pm$ 10%, B           |
| CV13         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%            |
| CV14         | 24781102 | Chip, 1000pF, SL                          |
| CV15         | 24781102 | Chip, 1000pF, SL                          |
| CV16         | 24781102 | Chip, 1000pF, SL                          |
| CV17         | 24781102 | Chip, 1000pF, SL                          |
| CV18         | 24781102 | Chip, 1000pF, SL                          |
| CV19         | 24781102 | Chip, 1000pF, SL                          |
| CV20         | 24781430 | Chip, 43pF, $\pm$ 5%, SL                  |
| CV23         | 24203101 | EL, 100 $\mu$ F, $\pm$ 20%, 16V           |
| CV24         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%            |
| CV25         | 24763471 | EL, 470 $\mu$ F, $\pm$ 20%, 16V           |
| CV31         | 24781102 | Chip, 1000pF, SL                          |
| CV34         | 24781102 | Chip, 1000pF, SL                          |
| CV35         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%            |
| CV37         | 24781102 | Chip, 1000pF, SL                          |
| CV39         | 24203101 | EL, 100 $\mu$ F, $\pm$ 20%, 16V           |
| CV40         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%            |
| CV46         | 24212332 | CD, 3300pF, $\pm$ 10%                     |
| CV47         | 24212332 | CD, 3300pF, $\pm$ 10%                     |
| CV48         | 24212102 | CD, 1000pF, $\pm$ 10%                     |
| CV65         | 24203101 | EL, 100 $\mu$ F, $\pm$ 20%, 16V           |
| CV66         | 24203101 | EL, 100 $\mu$ F, $\pm$ 20%, 16V           |
| CV67         | 24763471 | EL, 470 $\mu$ F, $\pm$ 20%, 16V           |
| CV68         | 24763471 | EL, 470 $\mu$ F, $\pm$ 20%, 16V           |
| CV78         | 24781390 | Chip, 39pF, SL                            |
| CX101        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V        |
| CX102        | 24794470 | EL, 47 $\mu$ F, $\pm$ 20%, 16V            |
| CX103        | 24092441 | Chip, 1 $\mu$ F, +80%, -20%, 16V          |
| CX104        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V        |
| CX105        | 24774330 | Chip, 33pF                                |
| CX106        | 24774220 | Chip, 22pF, CH                            |
| CX107        | 24774560 | Chip, 56pF, CH                            |
| CX108        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V        |
| CX109        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V        |
| CX110        | 24085981 | EL, 10 $\mu$ F, $\pm$ 20%, 16V, Non-Polar |
| CX111        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V        |
| CX112        | 24794100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V            |
| CX113        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V        |



| Location No. | Part No. | Description                         |
|--------------|----------|-------------------------------------|
| CX311        | 24794100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V      |
| CX321        | 24794100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V      |
| CX322        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX323        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX324        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX325        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX326        | 24774680 | Chip, 68pF                          |
| CX328        | 24774330 | Chip, 33pF                          |
| CX329        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX330        | 24794470 | EL, 47 $\mu$ F, $\pm$ 20%, 16V      |
| CX341        | 24794100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V      |
| CX342        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX343        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX344        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX345        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX346        | 24774181 | Chip, 180pF                         |
| CX348        | 24774181 | Chip, 180pF                         |
| CX349        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX350        | 24794470 | EL, 47 $\mu$ F, $\pm$ 20%, 16V      |
| CX361        | 24794100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V      |
| CX362        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX363        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX364        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX365        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX366        | 24774181 | Chip, 180pF                         |
| CX368        | 24774181 | Chip, 180pF                         |
| CX369        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX370        | 24794470 | EL, 47 $\mu$ F, $\pm$ 20%, 16V      |
| CX401        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX402        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX403        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX404        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX405        | 24794471 | EL, 470 $\mu$ F, $\pm$ 20%, 16V     |
| CX406        | 24794471 | EL, 470 $\mu$ F, $\pm$ 20%, 16V     |
| CX407        | 24774220 | Chip, 22pF, CH                      |
| CX408        | 24774220 | Chip, 22pF, CH                      |
| CX409        | 24774220 | Chip, 22pF, CH                      |
| CX410        | 24774220 | Chip, 22pF, CH                      |
| CX411        | 24774220 | Chip, 22pF, CH                      |
| CX412        | 24774220 | Chip, 22pF, CH                      |
| CX421        | 24774221 | Chip, 220pF, $\pm$ 5%, 50V, CH      |
| CX422        | 24774221 | Chip, 220pF, $\pm$ 5%, 50V, CH      |
| CX423        | 24774221 | Chip, 220pF, $\pm$ 5%, 50V, CH      |
| CX424        | 24774221 | Chip, 220pF, $\pm$ 5%, 50V, CH      |
| CX425        | 24774221 | Chip, 220pF, $\pm$ 5%, 50V, CH      |
| CX427        | 24774221 | Chip, 220pF, $\pm$ 5%, 50V, CH      |
| CX428        | 24774330 | Chip, 33pF                          |
| CX429        | 24774330 | Chip, 33pF                          |
| CX430        | 24774221 | Chip, 220pF, $\pm$ 5%, 50V, CH      |
| CX431        | 24073020 | EL, 1000 $\mu$ F, $\pm$ 20%, 10V    |
| CX432        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX433        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX434        | 24092441 | Chip, 1 $\mu$ F, +80%, -20%, 16V    |
| CX435        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CX436        | 24092293 | Chip, 0.1 $\mu$ F, +80%, -20%, 25V  |
| CZ03         | 24092442 | Chip, 0.47 $\mu$ F, +80%, -20%, 16V |
| CZ05         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%      |
| CZ07         | 24092178 | Chip, 0.1 $\mu$ F, $\pm$ 10%, B     |
| CZ09         | 24781220 | Chip, 22pF, SL                      |
| CZ10         | 24781100 | Chip, 10pF, $\pm$ 0.5%, SL          |
| CZ11         | 24781220 | Chip, 22pF, SL                      |
| CZ12         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%      |
| CZ13         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%      |
| CZ14         | 24203100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V      |

| Location No. | Part No. | Description                      |
|--------------|----------|----------------------------------|
| CZ17         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%   |
| CZ19         | 24781181 | Chip, 180pF, SL                  |
| CZ20         | 24815103 | Chip, 0.01 $\mu$ F, $\pm$ 10%, B |
| CZ21         | 24781122 | Chip, 1200pF                     |
| CZ22         | 24203100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V   |
| CZ23         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%   |
| CZ24         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%   |
| CZ25         | 24203100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V   |
| CZ26         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%   |
| CZ28         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%   |
| CZ29         | 24814103 | Chip, 0.01 $\mu$ F, +80%, -20%   |
| CZ30         | 24203100 | EL, 10 $\mu$ F, $\pm$ 20%, 16V   |
| CZ31         | 24092178 | Chip, 0.1 $\mu$ F, $\pm$ 10%, B  |
| CZ32         | 24781470 | Chip, 47pF, SL                   |
| CZ33         | 24781470 | Chip, 47pF, SL                   |
| CZ34         | 24781470 | Chip, 47pF, SL                   |
| CZ35         | 24781470 | Chip, 47pF, SL                   |
| CZ45         | 24781100 | Chip, 10pF, $\pm$ 0.5%, SL       |

## RESISTORS

|      |          |                       |
|------|----------|-----------------------|
| R101 | 24366101 | CF, 100 ohm           |
| R101 | 24553223 | OMF, 22k ohm, 1W      |
| R102 | 24366103 | CF, 10k ohm           |
| R201 | 24872821 | Chip, 820 ohm, 1/16W  |
| R202 | 24872102 | Chip, 1k ohm, 1/16W   |
| R204 | 24872104 | Chip, 100k ohm, 1/16W |
| R205 | 24872101 | Chip, 100 ohm, 1/16W  |
| R206 | 24872471 | Chip, 470 ohm, 1/16W  |
| R207 | 24872103 | Chip, 10k ohm, 1/16W  |
| R208 | 24872103 | Chip, 10k ohm, 1/16W  |
| R208 | 24366103 | CF, 10k ohm           |
| R209 | 24872103 | Chip, 10k ohm, 1/16W  |
| R209 | 24366103 | CF, 10k ohm           |
| R210 | 24872101 | Chip, 100 ohm, 1/16W  |
| R211 | 24366563 | CF, 56k ohm           |
| R211 | 24872101 | Chip, 100 ohm, 1/16W  |
| R212 | 24872101 | Chip, 100 ohm, 1/16W  |
| R213 | 24872681 | Chip, 680 ohm, 1/16W  |
| R214 | 24872681 | Chip, 680 ohm, 1/16W  |
| R215 | 24872681 | Chip, 680 ohm, 1/16W  |
| R216 | 24872103 | Chip, 10k ohm, 1/16W  |
| R217 | 24366392 | CF, 3900 ohm          |
| R218 | 24872101 | Chip, 100 ohm, 1/16W  |
| R219 | 24366473 | CF, 47k ohm           |
| R219 | 24872101 | Chip, 100 ohm, 1/16W  |
| R220 | 24872101 | Chip, 100 ohm, 1/16W  |
| R223 | 24872472 | Chip, 4700 ohm, 1/16W |
| R227 | 24366223 | CF, 22k ohm           |
| R229 | 24872392 | Chip, 3900 ohm, 1/16W |
| R231 | 24872222 | Chip, 2200 ohm, 1/16W |
| R235 | 24872222 | Chip, 2200 ohm, 1/16W |
| R236 | 24872101 | Chip, 100 ohm, 1/16W  |
| R237 | 24872101 | Chip, 100 ohm, 1/16W  |
| R238 | 24872562 | Chip, 5600 ohm, 1/16W |
| R240 | 24366102 | CF, 1k ohm            |
| R260 | 24872153 | Chip, 15k ohm, 1/16W  |
| R261 | 24872682 | Chip, 6800 ohm, 1/16W |
| R266 | 24872102 | Chip, 1k ohm, 1/16W   |
| R267 | 24872222 | Chip, 2200 ohm, 1/16W |
| R268 | 24872101 | Chip, 100 ohm, 1/16W  |
| R269 | 24872471 | Chip, 470 ohm, 1/16W  |
| R273 | 24872473 | Chip, 47k ohm, 1/16W  |
| R274 | 24872102 | Chip, 1k ohm, 1/16W   |
| R275 | 24872101 | Chip, 100 ohm, 1/16W  |

| Location No. | Part No. | Description           |
|--------------|----------|-----------------------|
| R276         | 24872683 | Chip, 68k ohm, 1/16W  |
| R277         | 24872103 | Chip, 10k ohm, 1/16W  |
| R303         | 24321109 | MF, 1 ohm, 1/2W       |
| R305         | 24322159 | OMF, 1.5 ohm, 1W      |
| R306         | 24366243 | CF, 24k ohm           |
| R309         | 24366303 | CF, 30k ohm           |
| R310         | 24366102 | CF, 1k ohm            |
| R312         | 24366153 | CF, 15k ohm           |
| R313         | 24366153 | CF, 15k ohm           |
| R314         | 24366102 | CF, 1k ohm            |
| R315         | 24872474 | Chip, 470k ohm, 1/16W |
| R315         | 24366332 | CF, 3300 ohm          |
| R317         | 24366472 | CF, 4700 ohm          |
| R321         | 24366133 | CF, 13k ohm           |
| R322         | 24366102 | CF, 1k ohm            |
| R323         | 24366103 | CF, 10k ohm           |
| R324         | 24366681 | CF, 680 ohm           |
| R325         | 24366103 | CF, 10k ohm           |
| R325         | 24366103 | CF, 10k ohm           |
| R327         | 24339159 | MF, 1.5 ohm, 2W       |
| R328         | 24366471 | CF, 470 ohm           |
| R330         | 24366103 | CF, 10k ohm           |
| R336         | 24383391 | OMF, 390 ohm, 2W      |
| R341         | 24366822 | CF, 8200 ohm          |
| R343         | 24366273 | CF, 27k ohm           |
| R344         | 24382102 | OMF, 1k ohm, 1W       |
| R353         | 24366621 | CF, 620 ohm           |
| R360         | 24872223 | Chip, 22k ohm, 1/16W  |
| R364         | 24872223 | Chip, 22k ohm, 1/16W  |
| R365         | 24872223 | Chip, 22k ohm, 1/16W  |
| R366         | 24872472 | Chip, 4700 ohm, 1/16W |
| R370         | 24338159 | MF, 1.5 ohm, 1W       |
| R371         | 24366682 | CF, 6800 ohm          |
| R372         | 24366362 | CF, 3600 ohm          |
| R373         | 24366182 | CF, 1800 ohm          |
| R374         | 24366153 | CF, 15k ohm           |
| R381         | 24366103 | CF, 10k ohm           |
| R382         | 24366433 | CF, 43k ohm           |
| R383         | 24366103 | CF, 10k ohm           |
| R384         | 24552100 | OMF, 10 ohm, 1/2W     |
| R385         | 24383101 | OMF, 100 ohm, 2W      |
| R399         | 24366684 | CF, 680k ohm          |
| R401         | 24872391 | Chip, 390 ohm, 1/16W  |
| R402         | 24872102 | Chip, 1k ohm, 1/16W   |
| R403         | 24872392 | Chip, 3900 ohm, 1/16W |
| R405         | 24553682 | OMF, 6800 ohm, 1W     |
| R407         | 24872103 | Chip, 10k ohm, 1/16W  |
| R411         | 24366180 | CF, 18 ohm            |
| R414         | 24531560 | FR, 56 ohm, 1/2W      |
| R415         | 24553561 | OMF, 560 ohm, 1W      |
| R416         | 24381563 | OMF, 56k ohm, 1/2W    |
| R417         | 24510101 | Cement, 100 ohm, 5W   |
| R424         | 24366152 | CF, 1500 ohm          |
| R425         | 24366182 | CF, 1800 ohm          |
| R426         | 24366751 | CF, 750 ohm           |
| R427         | 24366392 | CF, 3900 ohm          |
| R428         | 24366561 | CF, 560 ohm           |
| R429         | 24552560 | OMF, 56 ohm, 1/2W     |
| R435         | 24366184 | CF, 180k ohm          |
| R441         | 24383561 | OMF, 560 ohm, 2W      |
| R4371        | 24366684 | CF, 680k ohm          |
| R4372        | 24366153 | CF, 15k ohm           |
| R4373        | 24366101 | CF, 100 ohm           |
| R4374        | 24366101 | CF, 100 ohm           |

| Location No. | Part No. | Description                    |
|--------------|----------|--------------------------------|
| R4375        | 24366101 | CF, 100 ohm                    |
| R4378        | 24366154 | CF, 150k ohm                   |
| R4379        | 24366104 | CF, 100k ohm                   |
| R4385        | 24366301 | CF, 300 ohm                    |
| R4386        | 24366473 | CF, 47k ohm                    |
| R4387        | 24366681 | CF, 680 ohm                    |
| R4403        | 24366101 | CF, 100 ohm                    |
| R4404        | 24366101 | CF, 100 ohm                    |
| R4406        | 24366752 | CF, 7500 ohm                   |
| R4407        | 24366361 | CF, 360 ohm                    |
| R4410        | 24366103 | CF, 10k ohm                    |
| R4416        | 24366101 | CF, 100 ohm                    |
| R4417        | 24366101 | CF, 100 ohm                    |
| R4418        | 24366102 | CF, 1k ohm                     |
| R4422        | 24366101 | CF, 100 ohm                    |
| R4425        | 24552471 | OMF, 470 ohm, 1/2W             |
| R4426        | 24366152 | CF, 1500 ohm                   |
| R4460        | 24872102 | Chip, 1k ohm, 1/16W            |
| R4461        | 24872102 | Chip, 1k ohm, 1/16W            |
| R4462        | 24872133 | Chip, 13k ohm, 1/16W           |
| R4463        | 24872682 | Chip, 6800 ohm, 1/16W          |
| R4464        | 24872223 | Chip, 22k ohm, 1/16W           |
| R4472        | 24872223 | Chip, 22k ohm, 1/16W           |
| R4490        | 24382222 | OMF, 2200 ohm, 1W              |
| R4491        | 24366392 | CF, 3900 ohm                   |
| R4492        | 24366103 | CF, 10k ohm                    |
| R4493        | 24382104 | OMF, 100k ohm, 1W              |
| R445         | 24321129 | MF, 1.2 ohm, 1/2W              |
| R460         | 24552122 | OMF, 1200 ohm, 1/2W            |
| R461         | 24381123 | OMF, 12k ohm, 1/2W             |
| R462         | 24366333 | CF, 33k ohm                    |
| R463         | 24323229 | MF, 2.2 ohm, 2W                |
| R464         | 24366273 | CF, 27k ohm                    |
| R465         | 24366101 | CF, 100 ohm                    |
| R466         | 24366272 | CF, 2700 ohm                   |
| R467         | 24327224 | MF, 220k ohm, $\pm 1\%$ , 1/4W |
| R468         | 24366163 | CF, 16k ohm                    |
| R469         | 24000211 | FR, 15 ohm, 1/2W               |
| R470         | 24339568 | OMF, 0.56 ohm, 2W              |
| R471         | 24531271 | FR, 270 ohm, 1/2W              |
| R473         | 24366103 | CF, 10k ohm                    |
| R474         | 24366473 | CF, 47k ohm                    |
| R478         | 24381333 | OMF, 33k ohm, 1/2W             |
| R479         | 24531680 | FR, 68 ohm, 1/2W               |
| R480         | 24552222 | OMF, 2200 ohm, 1/2W            |
| R481         | 24366392 | CF, 3900 ohm                   |
| R482         | 24366183 | CF, 18k ohm                    |
| R483         | 24366223 | CF, 22k ohm                    |
| R487         | 24366474 | CF, 470k ohm                   |
| R488         | 24366154 | CF, 150k ohm                   |
| R490         | 24366101 | CF, 100 ohm                    |
| R491         | 24366101 | CF, 100 ohm                    |
| R492         | 24366472 | CF, 4700 ohm                   |
| R499         | 24366101 | CF, 100 ohm                    |
| R501         | 24872223 | Chip, 22k ohm, 1/16W           |
| R502         | 24872101 | Chip, 100 ohm, 1/16W           |
| R503         | 24872101 | Chip, 100 ohm, 1/16W           |
| R505         | 24872102 | Chip, 1k ohm, 1/16W            |
| R506         | 24872103 | Chip, 10k ohm, 1/16W           |
| R508         | 24872102 | Chip, 1k ohm, 1/16W            |
| R509         | 24872102 | Chip, 1k ohm, 1/16W            |
| R510         | 24872472 | Chip, 4700 ohm, 1/16W          |
| R511         | 24872101 | Chip, 100 ohm, 1/16W           |
| R513         | 24366472 | CF, 4700 ohm                   |



| Location No. | Part No. | Description             |
|--------------|----------|-------------------------|
| R514         | 24366101 | CF, 100 ohm             |
| R516         | 24872101 | Chip, 100 ohm, 1/16W    |
| R517         | 24872101 | Chip, 100 ohm, 1/16W    |
| R517         | 24366102 | CF, 1k ohm              |
| R518         | 24366102 | CF, 1k ohm              |
| R518         | 24872472 | Chip, 4700 ohm, 1/16W   |
| R519         | 24872101 | Chip, 100 ohm, 1/16W    |
| R520         | 24872103 | Chip, 10k ohm, 1/16W    |
| R521         | 24872223 | Chip, 22k ohm, 1/16W    |
| R522         | 24872104 | Chip, 100k ohm, 1/16W   |
| R532         | 24000824 | Chip, Jumper, 2125 type |
| R533         | 24000824 | Chip, Jumper, 2125 type |
| R534         | 24000824 | Chip, Jumper, 2125 type |
| R609         | 24366563 | CF, 56k ohm             |
| R610         | 24366103 | CF, 10k ohm             |
| R611         | 24366103 | CF, 10k ohm             |
| R612         | 24366103 | CF, 10k ohm             |
| R613         | 24366224 | CF, 220k ohm            |
| R615         | 24366273 | CF, 27k ohm             |
| R616         | 24366333 | CF, 33k ohm             |
| R617         | 24366472 | CF, 4700 ohm            |
| R618         | 24366223 | CF, 22k ohm             |
| R619         | 24366472 | CF, 4700 ohm            |
| R620         | 24366273 | CF, 27k ohm             |
| R621         | 24366273 | CF, 27k ohm             |
| R622         | 24366392 | CF, 3900 ohm            |
| R623         | 24366332 | CF, 3300 ohm            |
| R624         | 24366103 | CF, 10k ohm             |
| R625         | 24366103 | CF, 10k ohm             |
| R626         | 24366562 | CF, 5600 ohm            |
| R627         | 24366102 | CF, 1k ohm              |
| R628         | 24366102 | CF, 1k ohm              |
| R634         | 24366229 | CF, 2.2 ohm             |
| R637         | 24366562 | CF, 5600 ohm            |
| R639         | 24366223 | CF, 22k ohm             |
| R640         | 24366562 | CF, 5600 ohm            |
| R641         | 24366272 | CF, 2700 ohm            |
| R642         | 24366562 | CF, 5600 ohm            |
| R643         | 24366682 | CF, 6800 ohm            |
| R644         | 24366473 | CF, 47k ohm             |
| R645         | 24366229 | CF, 2.2 ohm             |
| R646         | 24366223 | CF, 22k ohm             |
| R648         | 24366229 | CF, 2.2 ohm             |
| R649         | 24366223 | CF, 22k ohm             |
| R661         | 24510159 | Cement, 1.5 ohm, 5W     |
| R661         | 24552221 | OMF, 220 ohm, 1/2W      |
| R662         | 24366104 | CF, 100k ohm            |
| R662         | 24552221 | OMF, 220 ohm, 1/2W      |
| R662         | 24552221 | OMF, 220 ohm, 1/2W      |
| R670         | 24366562 | CF, 5600 ohm            |
| R671         | 24366182 | CF, 1800 ohm            |
| R671         | 24366102 | CF, 1k ohm              |
| R672         | 24366102 | CF, 1k ohm              |
| R672         | 24366562 | CF, 5600 ohm            |
| R673         | 24366102 | CF, 1k ohm              |
| R673         | 24366182 | CF, 1800 ohm            |
| R674         | 24366152 | CF, 1500 ohm            |
| R674         | 24366102 | CF, 1k ohm              |
| R675         | 24366153 | CF, 15k ohm             |
| R676         | 24366223 | CF, 22k ohm             |
| R676         | 24872223 | Chip, 22k ohm, 1/16W    |
| R677         | 24366223 | CF, 22k ohm             |
| R677         | 24872223 | Chip, 22k ohm, 1/16W    |
| R678         | 24872223 | Chip, 22k ohm, 1/16W    |

| Location No. | Part No. | Description                           |
|--------------|----------|---------------------------------------|
| R679         | 24872223 | Chip, 22k ohm, 1/16W                  |
| R680         | 24872223 | Chip, 22k ohm, 1/16W                  |
| R681         | 24872223 | Chip, 22k ohm, 1/16W                  |
| R682         | 24366104 | CF, 100k ohm                          |
| R683         | 24366273 | CF, 27k ohm                           |
| R684         | 24366229 | CF, 2.2 ohm                           |
| R685         | 24366229 | CF, 2.2 ohm                           |
| R686         | 24366229 | CF, 2.2 ohm                           |
| R687         | 24366222 | CF, 2200 ohm                          |
| R688         | 24366222 | CF, 2200 ohm                          |
| R689         | 24366104 | CF, 100k ohm                          |
| R690         | 24872681 | Chip, 680 ohm, 1/16W                  |
| R691         | 24872681 | Chip, 680 ohm, 1/16W                  |
| R692         | 24872681 | Chip, 680 ohm, 1/16W                  |
| R693         | 24872681 | Chip, 680 ohm, 1/16W                  |
| R702         | 24552221 | OMF, 220 ohm, 1/2W                    |
| R712         | 24366101 | CF, 100 ohm                           |
| R715         | 24366223 | CF, 22k ohm                           |
| R716         | 24366273 | CF, 27k ohm                           |
| R717         | 24366333 | CF, 33k ohm                           |
| R718         | 24366681 | CF, 680 ohm                           |
| R722         | 24552471 | OMF, 470 ohm, 1/2W                    |
| R723         | 24366101 | CF, 100 ohm                           |
| R724         | 24366151 | CF, 150 ohm                           |
| R725         | 24366821 | CF, 820 ohm                           |
| R730         | 24552100 | OMF, 10 ohm, 1/2W                     |
| R731         | 24553331 | OMF, 330 ohm, 1W                      |
| R732         | 24366220 | CF, 22 ohm                            |
| R733         | 24366683 | CF, 68k ohm                           |
| R734         | 24366220 | CF, 22 ohm                            |
| R735         | 24366683 | CF, 68k ohm                           |
| R736         | 24366470 | CF, 47 ohm                            |
| R737         | 24366681 | CF, 680 ohm                           |
| R738         | 24366123 | CF, 12k ohm                           |
| R739         | 24366681 | CF, 680 ohm                           |
| R740         | 24366470 | CF, 47 ohm                            |
| R741         | 24366229 | CF, 2.2 ohm                           |
| R742         | 24366229 | CF, 2.2 ohm                           |
| R743         | 24554101 | OMF, 100 ohm, 2W                      |
| R744         | 24366122 | CF, 1200 ohm                          |
| R745         | 24366122 | CF, 1200 ohm                          |
| △ R801       | 24009954 | Metal-Glazed Resistor, 2.2M ohm, 1/2W |
| R803         | 24383333 | OMF, 33k ohm, 2W                      |
| R804         | 24366334 | CF, 330k ohm                          |
| R805         | 24366681 | CF, 680 ohm                           |
| R807         | 24366334 | CF, 330k ohm                          |
| R808         | 24019340 | PTC Thermistor, 18 ohm                |
| R809         | 24366393 | CF, 39k ohm                           |
| R810         | 24007863 | Cement, 3.3 ohm, 15W                  |
| R811         | 24568271 | Cement, 270 ohm, 7W                   |
| R814         | 24366682 | CF, 6800 ohm                          |
| R815         | 24366332 | CF, 3300 ohm                          |
| R818         | 24019460 | MF, 0.1 ohm, 2W                       |
| R821         | 24366101 | CF, 100 ohm                           |
| R822         | 24552103 | OMF, 10k ohm, 1/2W                    |
| R823         | 24552682 | OMF, 6800 ohm, 1/2W                   |
| R824         | 24569689 | Cement, 6.8 ohm, 10W                  |
| R827         | 24366681 | CF, 680 ohm                           |
| R828         | 24366821 | CF, 820 ohm                           |
| R829         | 24321338 | MF, 0.33 ohm, 1/2W                    |
| R831         | 24366471 | CF, 470 ohm                           |
| R832         | 24366472 | CF, 4700 ohm                          |
| R833         | 24366222 | CF, 2200 ohm                          |

| Location No. | Part No. | Description                         |
|--------------|----------|-------------------------------------|
| R834         | 24366471 | CF, 470 ohm                         |
| R841         | 24531120 | FR, 12 ohm, 1/2W                    |
| R842         | 24552392 | OMF, 3900 ohm, 1/2W                 |
| R846         | 24366101 | CF, 100 ohm                         |
| R847         | 24366472 | CF, 4700 ohm                        |
| R849         | 24366471 | CF, 470 ohm                         |
| R890         | 24553333 | OMF, 33k ohm, 1W                    |
| △R899        | 24005007 | Metal-Glazed Resistor, 8.2M ohm, 1W |
| R901         | 24376561 | CF, 560 ohm, 1/2W                   |
| R902         | 24376561 | CF, 560 ohm, 1/2W                   |
| R903         | 24376561 | CF, 560 ohm, 1/2W                   |
| R904         | 24366472 | CF, 4700 ohm                        |
| R905         | 24366150 | CF, 15 ohm                          |
| R909         | 24366100 | CF, 10 ohm                          |
| R912         | 24366102 | CF, 1k ohm                          |
| R914         | 24366331 | CF, 330 ohm                         |
| R915         | 24366680 | CF, 68 ohm                          |
| R916         | 24366180 | CF, 18 ohm                          |
| R917         | 24366471 | CF, 470 ohm                         |
| R918         | 24366180 | CF, 18 ohm                          |
| R919         | 24366102 | CF, 1k ohm                          |
| R920         | 24000880 | FR, 5.1 ohm, 1W                     |
| R921         | 24366331 | CF, 330 ohm                         |
| R922         | 24366680 | CF, 68 ohm                          |
| R923         | 24366152 | CF, 1500 ohm                        |
| R924         | 24366180 | CF, 18 ohm                          |
| R925         | 24366471 | CF, 470 ohm                         |
| R926         | 24366102 | CF, 1k ohm                          |
| R927         | 24366102 | CF, 1k ohm                          |
| R928         | 24366331 | CF, 330 ohm                         |
| R929         | 24366680 | CF, 68 ohm                          |
| R930         | 24366180 | CF, 18 ohm                          |
| R932         | 24366332 | CF, 3300 ohm                        |
| R933         | 24366750 | CF, 75 ohm                          |
| R934         | 24366361 | CF, 360 ohm                         |
| R935         | 24366102 | CF, 1k ohm                          |
| R936         | 24366750 | CF, 75 ohm                          |
| R937         | 24366471 | CF, 470 ohm                         |
| R939         | 24366470 | CF, 47 ohm                          |
| R941         | 24366471 | CF, 470 ohm                         |
| R942         | 24366392 | CF, 3900 ohm                        |
| R943         | 24366392 | CF, 3900 ohm                        |
| R944         | 24366392 | CF, 3900 ohm                        |
| R945         | 24366180 | CF, 18 ohm                          |
| R946         | 24366180 | CF, 18 ohm                          |
| R947         | 24366561 | CF, 560 ohm                         |
| R948         | 24366822 | CF, 8200 ohm                        |
| R949         | 24366271 | CF, 270 ohm                         |
| R960         | 24383153 | OMF, 15k ohm, 2W                    |
| R961         | 24383153 | OMF, 15k ohm, 2W                    |
| R962         | 24383153 | OMF, 15k ohm, 2W                    |
| R963         | 24383153 | OMF, 15k ohm, 2W                    |
| R964         | 24383153 | OMF, 15k ohm, 2W                    |
| R965         | 24383153 | OMF, 15k ohm, 2W                    |
| R966         | 24383153 | OMF, 15k ohm, 2W                    |
| R967         | 24383153 | OMF, 15k ohm, 2W                    |
| R968         | 24383153 | OMF, 15k ohm, 2W                    |
| R969         | 24366682 | CF, 6800 ohm                        |
| R970         | 24366682 | CF, 6800 ohm                        |
| R971         | 24366682 | CF, 6800 ohm                        |
| R972         | 24366152 | CF, 1500 ohm                        |
| R973         | 24366103 | CF, 10k ohm                         |
| R974         | 24366103 | CF, 10k ohm                         |

| Location No. | Part No. | Description       |
|--------------|----------|-------------------|
| R975         | 24366103 | CF, 10k ohm       |
| R976         | 24366152 | CF, 1500 ohm      |
| R977         | 24366561 | CF, 560 ohm       |
| R978         | 24366182 | CF, 1800 ohm      |
| R979         | 24366272 | CF, 2700 ohm      |
| R980         | 24366471 | CF, 470 ohm       |
| R981         | 24366471 | CF, 470 ohm       |
| R982         | 24366682 | CF, 6800 ohm      |
| R983         | 24366222 | CF, 2200 ohm      |
| R984         | 24366821 | CF, 820 ohm       |
| R985         | 24367471 | CF, 470 ohm, ±2%  |
| R986         | 24367681 | CF, 680 ohm, ±2%  |
| R987         | 24367681 | CF, 680 ohm, ±2%  |
| R988         | 24367472 | CF, 4700 ohm, ±2% |
| R989         | 24367472 | CF, 4700 ohm, ±2% |
| R990         | 24366561 | CF, 560 ohm       |
| R991         | 24367391 | CF, 390 ohm, ±2%  |
| R992         | 24366150 | CF, 15 ohm        |
| R994         | 24366331 | CF, 330 ohm       |
| R995         | 24366561 | CF, 560 ohm       |
| R996         | 24366222 | CF, 2200 ohm      |
| R997         | 24366102 | CF, 1k ohm        |
| R999         | 24366102 | CF, 1k ohm        |
| RA02         | 24366102 | CF, 1k ohm        |
| RA03         | 24366102 | CF, 1k ohm        |
| RA04         | 24366102 | CF, 1k ohm        |
| RA05         | 24366102 | CF, 1k ohm        |
| RA07         | 24366102 | CF, 1k ohm        |
| RA08         | 24366102 | CF, 1k ohm        |
| RA10         | 24366101 | CF, 100 ohm       |
| RA12         | 24366472 | CF, 4700 ohm      |
| RA13         | 24366153 | CF, 15k ohm       |
| RA14         | 24366153 | CF, 15k ohm       |
| RA15         | 24366103 | CF, 10k ohm       |
| RA16         | 24366102 | CF, 1k ohm        |
| RA17         | 24366102 | CF, 1k ohm        |
| RA18         | 24366102 | CF, 1k ohm        |
| RA19         | 24366331 | CF, 330 ohm       |
| RA20         | 24366331 | CF, 330 ohm       |
| RA21         | 24366331 | CF, 330 ohm       |
| RA22         | 24366331 | CF, 330 ohm       |
| RA23         | 24366472 | CF, 4700 ohm      |
| RA24         | 24366472 | CF, 4700 ohm      |
| RA26         | 24366102 | CF, 1k ohm        |
| RA27         | 24366102 | CF, 1k ohm        |
| RA29         | 24366104 | CF, 100k ohm      |
| RA29         | 24366102 | CF, 1k ohm        |
| RA30         | 24366103 | CF, 10k ohm       |
| RA30         | 24366102 | CF, 1k ohm        |
| RA31         | 24366561 | CF, 560 ohm       |
| RA33         | 24366103 | CF, 10k ohm       |
| RA35         | 24366102 | CF, 1k ohm        |
| RA37         | 24366101 | CF, 100 ohm       |
| RA38         | 24366101 | CF, 100 ohm       |
| RA40         | 24366331 | CF, 330 ohm       |
| RA41         | 24366273 | CF, 27k ohm       |
| RA43         | 24366102 | CF, 1k ohm        |
| RA44         | 24366103 | CF, 10k ohm       |
| RA46         | 24366103 | CF, 10k ohm       |
| RA47         | 24366103 | CF, 10k ohm       |
| RA48         | 24366103 | CF, 10k ohm       |
| RA65         | 24366103 | CF, 10k ohm       |
| RA66         | 24366103 | CF, 10k ohm       |
| RA67         | 24366472 | CF, 4700 ohm      |

| Location No. | Part No. | Description           |
|--------------|----------|-----------------------|
| RA70         | 24366333 | CF, 33k ohm           |
| RA71         | 24366683 | CF, 68k ohm           |
| RA72         | 24366223 | CF, 22k ohm           |
| RA73         | 24366103 | CF, 10k ohm           |
| RA75         | 24366333 | CF, 33k ohm           |
| RA76         | 24366103 | CF, 10k ohm           |
| RA77         | 24366223 | CF, 22k ohm           |
| RA78         | 24366102 | CF, 1k ohm            |
| RA78         | 24366683 | CF, 68k ohm           |
| RA91         | 24366223 | CF, 22k ohm           |
| RB01         | 24366271 | CF, 270 ohm           |
| RB02         | 24366271 | CF, 270 ohm           |
| RB03         | 24366223 | CF, 22k ohm           |
| RB03         | 24366101 | CF, 100 ohm           |
| RB04         | 24366223 | CF, 22k ohm           |
| RB06         | 24366271 | CF, 270 ohm           |
| RB07         | 24366271 | CF, 270 ohm           |
| RB09         | 24366470 | CF, 47 ohm            |
| RB10         | 24366101 | CF, 100 ohm           |
| RB11         | 24366103 | CF, 10k ohm           |
| RB30         | 24366103 | CF, 10k ohm           |
| RB43         | 24366103 | CF, 10k ohm           |
| RB44         | 24366103 | CF, 10k ohm           |
| RB45         | 24366101 | CF, 100 ohm           |
| RB81         | 24366122 | CF, 1200 ohm          |
| RB82         | 24366123 | CF, 12k ohm           |
| RB83         | 24366123 | CF, 12k ohm           |
| RB84         | 24366562 | CF, 5600 ohm          |
| RB90         | 24366392 | CF, 3900 ohm          |
| RB91         | 24366473 | CF, 47k ohm           |
| RB92         | 24366271 | CF, 270 ohm           |
| RB93         | 24366271 | CF, 270 ohm           |
| RB94         | 24366222 | CF, 2200 ohm          |
| RB95         | 24366222 | CF, 2200 ohm          |
| RB96         | 24366273 | CF, 27k ohm           |
| RB97         | 24366273 | CF, 27k ohm           |
| RB98         | 24366102 | CF, 1k ohm            |
| RD08         | 24366102 | CF, 1k ohm            |
| RD10         | 24366102 | CF, 1k ohm            |
| RD14         | 24366102 | CF, 1k ohm            |
| RD15         | 24366102 | CF, 1k ohm            |
| RD16         | 24366333 | CF, 33k ohm           |
| RD28         | 24366102 | CF, 1k ohm            |
| RD30         | 24366223 | CF, 22k ohm           |
| RD31         | 24366103 | CF, 10k ohm           |
| RD85         | 24366151 | CF, 150 ohm           |
| RD87         | 24366151 | CF, 150 ohm           |
| RD88         | 24366222 | CF, 2200 ohm          |
| RD89         | 24366151 | CF, 150 ohm           |
| RF01         | 24872222 | Chip, 2200 ohm, 1/16W |
| RF02         | 24366393 | CF, 39k ohm           |
| RF02         | 24366393 | CF, 39k ohm           |
| RF04         | 24872472 | Chip, 4700 ohm, 1/16W |
| RF06         | 24872102 | Chip, 1k ohm, 1/16W   |
| RF08         | 24872100 | Chip, 10 ohm, 1/16W   |
| RF09         | 24872100 | Chip, 10 ohm, 1/16W   |
| RF10         | 24872100 | Chip, 10 ohm, 1/16W   |
| RF11         | 24872103 | Chip, 10k ohm, 1/16W  |
| RF12         | 24872101 | Chip, 100 ohm, 1/16W  |
| RF13         | 24872101 | Chip, 100 ohm, 1/16W  |
| RF14         | 24872101 | Chip, 100 ohm, 1/16W  |
| RF15         | 24872103 | Chip, 10k ohm, 1/16W  |
| RF16         | 24872471 | Chip, 470 ohm, 1/16W  |
| RF20         | 24872222 | Chip, 2200 ohm, 1/16W |

| Location No. | Part No. | Description           |
|--------------|----------|-----------------------|
| RF21         | 24872471 | Chip, 470 ohm, 1/16W  |
| RF22         | 24872471 | Chip, 470 ohm, 1/16W  |
| RF26         | 24872102 | Chip, 1k ohm, 1/16W   |
| RJ02         | 24872101 | Chip, 100 ohm, 1/16W  |
| RK01         | 24872102 | Chip, 1k ohm, 1/16W   |
| RK03         | 24872101 | Chip, 100 ohm, 1/16W  |
| RK09         | 24872102 | Chip, 1k ohm, 1/16W   |
| RK11         | 24872102 | Chip, 1k ohm, 1/16W   |
| RK12         | 24872102 | Chip, 1k ohm, 1/16W   |
| RK13         | 24872472 | Chip, 4700 ohm, 1/16W |
| RK14         | 24872102 | Chip, 1k ohm, 1/16W   |
| RK15         | 24872103 | Chip, 10k ohm, 1/16W  |
| RK16         | 24872101 | Chip, 100 ohm, 1/16W  |
| RK17         | 24872101 | Chip, 100 ohm, 1/16W  |
| RK23         | 24872472 | Chip, 4700 ohm, 1/16W |
| RK25         | 24872103 | Chip, 10k ohm, 1/16W  |
| RK30         | 24872101 | Chip, 100 ohm, 1/16W  |
| RK31         | 24872103 | Chip, 10k ohm, 1/16W  |
| RK32         | 24872333 | Chip, 33k ohm, 1/16W  |
| RK33         | 24872223 | Chip, 22k ohm, 1/16W  |
| RK34         | 24872101 | Chip, 100 ohm, 1/16W  |
| RK35         | 24872102 | Chip, 1k ohm, 1/16W   |
| RK36         | 24872333 | Chip, 33k ohm, 1/16W  |
| RK37         | 24872223 | Chip, 22k ohm, 1/16W  |
| RK38         | 24872101 | Chip, 100 ohm, 1/16W  |
| RK39         | 24872102 | Chip, 1k ohm, 1/16W   |
| RK40         | 24872103 | Chip, 10k ohm, 1/16W  |
| RK41         | 24872103 | Chip, 10k ohm, 1/16W  |
| RK43         | 24872223 | Chip, 22k ohm, 1/16W  |
| RK51         | 24872101 | Chip, 100 ohm, 1/16W  |
| RK52         | 24872101 | Chip, 100 ohm, 1/16W  |
| RK53         | 24872101 | Chip, 100 ohm, 1/16W  |
| RK54         | 24872103 | Chip, 10k ohm, 1/16W  |
| RK55         | 24872102 | Chip, 1k ohm, 1/16W   |
| RK56         | 24872561 | Chip, 560 ohm, 1/16W  |
| RK57         | 24872102 | Chip, 1k ohm, 1/16W   |
| RK58         | 24872153 | Chip, 15k ohm, 1/16W  |
| RK59         | 24872101 | Chip, 100 ohm, 1/16W  |
| RK60         | 24872223 | Chip, 22k ohm, 1/16W  |
| RK61         | 24872822 | Chip, 8200 ohm, 1/16W |
| RK62         | 24872103 | Chip, 10k ohm, 1/16W  |
| RK63         | 24872103 | Chip, 10k ohm, 1/16W  |
| RK64         | 24872103 | Chip, 10k ohm, 1/16W  |
| RK65         | 24872103 | Chip, 10k ohm, 1/16W  |
| RK66         | 24872103 | Chip, 10k ohm, 1/16W  |
| RK67         | 24872102 | Chip, 1k ohm, 1/16W   |
| RK68         | 24872563 | Chip, 56k ohm, 1/16W  |
| RK69         | 24872392 | Chip, 3900 ohm, 1/16W |
| RK70         | 24872472 | Chip, 4700 ohm, 1/16W |
| RK71         | 24872272 | Chip, 2700 ohm, 1/16W |
| RK72         | 24872822 | Chip, 8200 ohm, 1/16W |
| RK73         | 24872822 | Chip, 8200 ohm, 1/16W |
| RK74         | 24872222 | Chip, 2200 ohm, 1/16W |
| RK76         | 24872102 | Chip, 1k ohm, 1/16W   |
| RK79         | 24872822 | Chip, 8200 ohm, 1/16W |
| RK80         | 24872472 | Chip, 4700 ohm, 1/16W |
| RK81         | 24872222 | Chip, 2200 ohm, 1/16W |
| RK82         | 24872472 | Chip, 4700 ohm, 1/16W |
| RK83         | 24872472 | Chip, 4700 ohm, 1/16W |
| RQ07         | 24872103 | Chip, 10k ohm, 1/16W  |
| RQ08         | 24872102 | Chip, 1k ohm, 1/16W   |
| RQ09         | 24872102 | Chip, 1k ohm, 1/16W   |
| RQ10         | 24872102 | Chip, 1k ohm, 1/16W   |
| RQ11         | 24872561 | Chip, 560 ohm, 1/16W  |

| Location No. | Part No. | Description             |
|--------------|----------|-------------------------|
| RQ12         | 24872561 | Chip, 560 ohm, 1/16W    |
| RQ20         | 24872563 | Chip, 56k ohm, 1/16W    |
| RR01         | 24366102 | CF, 1k ohm              |
| RR01         | 24872181 | Chip, 180 ohm, 1/16W    |
| RR02         | 24366104 | CF, 100k ohm            |
| RR02         | 24872181 | Chip, 180 ohm, 1/16W    |
| RR03         | 24366222 | CF, 2200 ohm            |
| RR03         | 24872181 | Chip, 180 ohm, 1/16W    |
| RR04         | 24872102 | Chip, 1k ohm, 1/16W     |
| RR04         | 24366101 | CF, 100 ohm             |
| RR05         | 24872102 | Chip, 1k ohm, 1/16W     |
| RR05         | 24366102 | CF, 1k ohm              |
| RR06         | 24000824 | Chip, Jumper, 2125 type |
| RR06         | 24366223 | CF, 22k ohm             |
| RR07         | 24366152 | CF, 1500 ohm            |
| RR07         | 24000824 | Chip, Jumper, 2125 type |
| RR08         | 24366332 | CF, 3300 ohm            |
| RR09         | 24000824 | Chip, Jumper, 2125 type |
| RR09         | 24366222 | CF, 2200 ohm            |
| RR10         | 24872103 | Chip, 10k ohm, 1/16W    |
| RR10         | 24366102 | CF, 1k ohm              |
| RR11         | 24872473 | Chip, 47k ohm, 1/16W    |
| RR11         | 24366681 | CF, 680 ohm             |
| RR12         | 24872102 | Chip, 1k ohm, 1/16W     |
| RR12         | 24366152 | CF, 1500 ohm            |
| RR13         | 24366152 | CF, 1500 ohm            |
| RR13         | 24872622 | Chip, 6200 ohm, 1/16W   |
| RR15         | 24366391 | CF, 390 ohm             |
| RR16         | 24366391 | CF, 390 ohm             |
| RR17         | 24366391 | CF, 390 ohm             |
| RR18         | 24366102 | CF, 1k ohm              |
| RR20         | 24872103 | Chip, 10k ohm, 1/16W    |
| RR22         | 24366103 | CF, 10k ohm             |
| RR23         | 24366103 | CF, 10k ohm             |
| RR24         | 24000824 | Chip, Jumper, 2125 type |
| RR25         | 24872102 | Chip, 1k ohm, 1/16W     |
| RR28         | 24872473 | Chip, 47k ohm, 1/16W    |
| RR29         | 24872473 | Chip, 47k ohm, 1/16W    |
| RR32         | 24872331 | Chip, 330 ohm, 1/16W    |
| RR33         | 24872331 | Chip, 330 ohm, 1/16W    |
| RR34         | 24872331 | Chip, 330 ohm, 1/16W    |
| RR35         | 24366392 | CF, 3900 ohm            |
| RR36         | 24366392 | CF, 3900 ohm            |
| RR37         | 24366392 | CF, 3900 ohm            |
| RR40         | 24366102 | CF, 1k ohm              |
| RR41         | 24366332 | CF, 3300 ohm            |
| RR48         | 24366102 | CF, 1k ohm              |
| RR99         | 24366152 | CF, 1500 ohm            |
| RS01         | 24872681 | Chip, 680 ohm, 1/16W    |
| RS02         | 24872681 | Chip, 680 ohm, 1/16W    |
| RS03         | 24872101 | Chip, 100 ohm, 1/16W    |
| RS04         | 24872101 | Chip, 100 ohm, 1/16W    |
| RS05         | 24872472 | Chip, 4700 ohm, 1/16W   |
| RS06         | 24872472 | Chip, 4700 ohm, 1/16W   |
| RS07         | 24872472 | Chip, 4700 ohm, 1/16W   |
| RS08         | 24872472 | Chip, 4700 ohm, 1/16W   |
| RS09         | 24872472 | Chip, 4700 ohm, 1/16W   |
| RS10         | 24872472 | Chip, 4700 ohm, 1/16W   |
| RS13         | 24872101 | Chip, 100 ohm, 1/16W    |
| RS14         | 24872101 | Chip, 100 ohm, 1/16W    |
| RS15         | 24872104 | Chip, 100k ohm, 1/16W   |
| RS16         | 24872104 | Chip, 100k ohm, 1/16W   |
| RS17         | 24872223 | Chip, 22k ohm, 1/16W    |
| RS18         | 24872223 | Chip, 22k ohm, 1/16W    |

| Location No. | Part No. | Description           |
|--------------|----------|-----------------------|
| RS19         | 24872102 | Chip, 1k ohm, 1/16W   |
| RS20         | 24872102 | Chip, 1k ohm, 1/16W   |
| RS21         | 24872222 | Chip, 2200 ohm, 1/16W |
| RS22         | 24872222 | Chip, 2200 ohm, 1/16W |
| RS23         | 24872101 | Chip, 100 ohm, 1/16W  |
| RS24         | 24872101 | Chip, 100 ohm, 1/16W  |
| RS27         | 24872104 | Chip, 100k ohm, 1/16W |
| RS28         | 24872104 | Chip, 100k ohm, 1/16W |
| RS29         | 24872223 | Chip, 22k ohm, 1/16W  |
| RS30         | 24872223 | Chip, 22k ohm, 1/16W  |
| RS31         | 24872103 | Chip, 10k ohm, 1/16W  |
| RS32         | 24872104 | Chip, 100k ohm, 1/16W |
| RS35         | 24872223 | Chip, 22k ohm, 1/16W  |
| RS36         | 24872223 | Chip, 22k ohm, 1/16W  |
| RS37         | 24872104 | Chip, 100k ohm, 1/16W |
| RS38         | 24872104 | Chip, 100k ohm, 1/16W |
| RS43         | 24872681 | Chip, 680 ohm, 1/16W  |
| RS44         | 24872681 | Chip, 680 ohm, 1/16W  |
| RS45         | 24872681 | Chip, 680 ohm, 1/16W  |
| RS46         | 24872681 | Chip, 680 ohm, 1/16W  |
| RV01         | 24872101 | Chip, 100 ohm, 1/16W  |
| RV02         | 24872101 | Chip, 100 ohm, 1/16W  |
| RV03         | 24872101 | Chip, 100 ohm, 1/16W  |
| RV04         | 24872101 | Chip, 100 ohm, 1/16W  |
| RV05         | 24872101 | Chip, 100 ohm, 1/16W  |
| RV06         | 24872101 | Chip, 100 ohm, 1/16W  |
| RV07         | 24872162 | Chip, 1600 ohm, 1/16W |
| RV08         | 24872162 | Chip, 1600 ohm, 1/16W |
| RV09         | 24872101 | Chip, 100 ohm, 1/16W  |
| RV10         | 24872101 | Chip, 100 ohm, 1/16W  |
| RV12         | 24872681 | Chip, 680 ohm, 1/16W  |
| RV13         | 24872681 | Chip, 680 ohm, 1/16W  |
| RV16         | 24872271 | Chip, 270 ohm, 1/16W  |
| RV18         | 24872123 | Chip, 12k ohm, 1/16W  |
| RV19         | 24872101 | Chip, 100 ohm, 1/16W  |
| RV22         | 24366222 | CF, 2200 ohm          |
| RV23         | 24366101 | CF, 100 ohm           |
| RV23         | 24552101 | OMF, 100 ohm, 1/2W    |
| RV24         | 24366181 | CF, 180 ohm           |
| RV25         | 24872101 | Chip, 100 ohm, 1/16W  |
| RV26         | 24366181 | CF, 180 ohm           |
| RV27         | 24872750 | Chip, 75 ohm, 1/16W   |
| RV28         | 24872683 | Chip, 68k ohm, 1/16W  |
| RV29         | 24872273 | Chip, 27k ohm, 1/16W  |
| RV30         | 24872750 | Chip, 75 ohm, 1/16W   |
| RV31         | 24872750 | Chip, 75 ohm, 1/16W   |
| RV32         | 24872750 | Chip, 75 ohm, 1/16W   |
| RV33         | 24872123 | Chip, 12k ohm, 1/16W  |
| RV34         | 24872123 | Chip, 12k ohm, 1/16W  |
| RV35         | 24872103 | Chip, 10k ohm, 1/16W  |
| RV36         | 24872101 | Chip, 100 ohm, 1/16W  |
| RV37         | 24872750 | Chip, 75 ohm, 1/16W   |
| RV60         | 24872332 | Chip, 3300 ohm, 1/16W |
| RV61         | 24552101 | OMF, 100 ohm, 1/2W    |
| RV62         | 24872101 | Chip, 100 ohm, 1/16W  |
| RV63         | 24366151 | CF, 150 ohm           |
| RV64         | 24872750 | Chip, 75 ohm, 1/16W   |
| RV65         | 24552101 | OMF, 100 ohm, 1/2W    |
| RV66         | 24872750 | Chip, 75 ohm, 1/16W   |
| RV67         | 24366151 | CF, 150 ohm           |
| RV68         | 24872101 | Chip, 100 ohm, 1/16W  |
| RV70         | 24872101 | Chip, 100 ohm, 1/16W  |
| RV71         | 24872472 | Chip, 4700 ohm, 1/16W |
| RV73         | 24872103 | Chip, 10k ohm, 1/16W  |

| Location No. | Part No. | Description           |
|--------------|----------|-----------------------|
| RV74         | 24872104 | Chip, 100k ohm, 1/16W |
| RV78         | 24872100 | Chip, 10 ohm, 1/16W   |
| RV79         | 24872471 | Chip, 470 ohm, 1/16W  |
| RV80         | 24366681 | CF, 680 ohm           |
| RV80         | 24872271 | Chip, 270 ohm, 1/16W  |
| RV81         | 24872750 | Chip, 75 ohm, 1/16W   |
| RV82         | 24872101 | Chip, 100 ohm, 1/16W  |
| RV83         | 24366681 | CF, 680 ohm           |
| RV85         | 24872750 | Chip, 75 ohm, 1/16W   |
| RV86         | 24872750 | Chip, 75 ohm, 1/16W   |
| RV87         | 24872750 | Chip, 75 ohm, 1/16W   |
| RV89         | 24872750 | Chip, 75 ohm, 1/16W   |
| RV90         | 24872681 | Chip, 680 ohm, 1/16W  |
| RV91         | 24872681 | Chip, 680 ohm, 1/16W  |
| RV92         | 24872100 | Chip, 10 ohm, 1/16W   |
| RV93         | 24872104 | Chip, 100k ohm, 1/16W |
| RV94         | 24872103 | Chip, 10k ohm, 1/16W  |
| RV95         | 24872472 | Chip, 4700 ohm, 1/16W |
| RV97         | 24872101 | Chip, 100 ohm, 1/16W  |
| RX101        | 24872220 | Chip, 22 ohm, 1/16W   |
| RX102        | 24872681 | Chip, 680 ohm, 1/16W  |
| RX103        | 24872221 | Chip, 220 ohm, 1/16W  |
| RX104        | 24872821 | Chip, 820 ohm, 1/16W  |
| RX106        | 24872331 | Chip, 330 ohm, 1/16W  |
| RX107        | 24872221 | Chip, 220 ohm, 1/16W  |
| RX108        | 24872680 | Chip, 680 ohm, 1/16W  |
| RX109        | 24872331 | Chip, 330 ohm, 1/16W  |
| RX110        | 24872821 | Chip, 820 ohm, 1/16W  |
| RX111        | 24872121 | Chip, 120 ohm, 1/16W  |
| RX112        | 24872100 | Chip, 10 ohm, 1/16W   |
| RX113        | 24872471 | Chip, 470 ohm, 1/16W  |
| RX114        | 24872681 | Chip, 680 ohm, 1/16W  |
| RX115        | 24872105 | Chip, 1M ohm, 1/16W   |
| RX141        | 24872220 | Chip, 22 ohm, 1/16W   |
| RX142        | 24872471 | Chip, 470 ohm, 1/16W  |
| RX143        | 24872153 | Chip, 15k ohm, 1/16W  |
| RX144        | 24872103 | Chip, 10k ohm, 1/16W  |
| RX145        | 24872331 | Chip, 330 ohm, 1/16W  |
| RX146        | 24872301 | Chip, 300 ohm, 1/16W  |
| RX147        | 24872681 | Chip, 680 ohm, 1/16W  |
| RX148        | 24872103 | Chip, 10k ohm, 1/16W  |
| RX149        | 24872103 | Chip, 10k ohm, 1/16W  |
| RX150        | 24872100 | Chip, 10 ohm, 1/16W   |
| RX151        | 24872102 | Chip, 1k ohm, 1/16W   |
| RX152        | 24872331 | Chip, 330 ohm, 1/16W  |
| RX155        | 24872102 | Chip, 1k ohm, 1/16W   |
| RX156        | 24872331 | Chip, 330 ohm, 1/16W  |
| RX157        | 24872471 | Chip, 470 ohm, 1/16W  |
| RX158        | 24872471 | Chip, 470 ohm, 1/16W  |
| RX161        | 24872220 | Chip, 22 ohm, 1/16W   |
| RX162        | 24872471 | Chip, 470 ohm, 1/16W  |
| RX163        | 24872153 | Chip, 15k ohm, 1/16W  |
| RX164        | 24872103 | Chip, 10k ohm, 1/16W  |
| RX165        | 24872331 | Chip, 330 ohm, 1/16W  |
| RX166        | 24872301 | Chip, 300 ohm, 1/16W  |
| RX167        | 24872681 | Chip, 680 ohm, 1/16W  |
| RX168        | 24872103 | Chip, 10k ohm, 1/16W  |
| RX169        | 24872103 | Chip, 10k ohm, 1/16W  |
| RX170        | 24872100 | Chip, 10 ohm, 1/16W   |
| RX171        | 24872102 | Chip, 1k ohm, 1/16W   |
| RX172        | 24872331 | Chip, 330 ohm, 1/16W  |
| RX175        | 24872102 | Chip, 1k ohm, 1/16W   |
| RX176        | 24872331 | Chip, 330 ohm, 1/16W  |
| RX177        | 24872471 | Chip, 470 ohm, 1/16W  |

| Location No. | Part No. | Description             |
|--------------|----------|-------------------------|
| RX178        | 24872471 | Chip, 470 ohm, 1/16W    |
| RX181        | 24872680 | Chip, 68 ohm, 1/16W     |
| RX185        | 24872100 | Chip, 10 ohm, 1/16W     |
| RX186        | 24000824 | Chip, Jumper, 2125 type |
| RX201        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX202        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX203        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX204        | 24000824 | Chip, Jumper, 2125 type |
| RX205        | 24019439 | Chip, 47 ohm, 1/16W     |
| RX206        | 24019439 | Chip, 47 ohm, 1/16W     |
| RX207        | 24019439 | Chip, 47 ohm, 1/16W     |
| RX208        | 24019439 | Chip, 47 ohm, 1/16W     |
| RX209        | 24019439 | Chip, 47 ohm, 1/16W     |
| RX210        | 24019439 | Chip, 47 ohm, 1/16W     |
| RX211        | 24019439 | Chip, 47 ohm, 1/16W     |
| RX212        | 24019439 | Chip, 47 ohm, 1/16W     |
| RX213        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX214        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX215        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX221        | 24000824 | Chip, Jumper, 2125 type |
| RX222        | 24872100 | Chip, 10 ohm, 1/16W     |
| RX223        | 24872100 | Chip, 10 ohm, 1/16W     |
| RX225        | 24872151 | Chip, 150 ohm, 1/16W    |
| RX226        | 24872331 | Chip, 330 ohm, 1/16W    |
| RX229        | 24872332 | Chip, 3300 ohm, 1/16W   |
| RX230        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX231        | 24000824 | Chip, Jumper, 2125 type |
| RX232        | 24872100 | Chip, 10 ohm, 1/16W     |
| RX233        | 24872100 | Chip, 10 ohm, 1/16W     |
| RX235        | 24872102 | Chip, 1k ohm, 1/16W     |
| RX236        | 24872472 | Chip, 4700 ohm, 1/16W   |
| RX237        | 24872681 | Chip, 680 ohm, 1/16W    |
| RX240        | 24872272 | Chip, 2700 ohm, 1/16W   |
| RX251        | 24872470 | Chip, 47 ohm, 1/16W     |
| RX252        | 24872470 | Chip, 47 ohm, 1/16W     |
| RX253        | 24872470 | Chip, 47 ohm, 1/16W     |
| RX254        | 24872470 | Chip, 47 ohm, 1/16W     |
| RX255        | 24872470 | Chip, 47 ohm, 1/16W     |
| RX256        | 24000824 | Chip, Jumper, 2125 type |
| RX258        | 24000824 | Chip, Jumper, 2125 type |
| RX259        | 24000824 | Chip, Jumper, 2125 type |
| RX261        | 24872101 | Chip, 100 ohm, 1/16W    |
| RX263        | 24872101 | Chip, 100 ohm, 1/16W    |
| RX271        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX272        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX273        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX281        | 24019439 | Chip, 47 ohm, 1/16W     |
| RX282        | 24872470 | Chip, 47 ohm, 1/16W     |
| RX283        | 24872470 | Chip, 47 ohm, 1/16W     |
| RX284        | 24872332 | Chip, 3300 ohm, 1/16W   |
| RX285        | 24872470 | Chip, 47 ohm, 1/16W     |
| RX286        | 24872470 | Chip, 47 ohm, 1/16W     |
| RX287        | 24872470 | Chip, 47 ohm, 1/16W     |
| RX288        | 24872470 | Chip, 47 ohm, 1/16W     |
| RX289        | 24872470 | Chip, 47 ohm, 1/16W     |
| RX301        | 24872151 | Chip, 150 ohm, 1/16W    |
| RX302        | 24872272 | Chip, 2700 ohm, 1/16W   |
| RX303        | 24872151 | Chip, 150 ohm, 1/16W    |
| RX304        | 24872272 | Chip, 2700 ohm, 1/16W   |
| RX305        | 24872151 | Chip, 150 ohm, 1/16W    |
| RX306        | 24872272 | Chip, 2700 ohm, 1/16W   |
| RX307        | 24872222 | Chip, 2200 ohm, 1/16W   |
| RX308        | 24872242 | Chip, 2400 ohm, 1/16W   |
| RX309        | 24872122 | Chip, 1200 ohm, 1/16W   |

| Location No. | Part No. | Description             |
|--------------|----------|-------------------------|
| RX310        | 24872122 | Chip, 1200 ohm, 1/16W   |
| RX311        | 24872122 | Chip, 1200 ohm, 1/16W   |
| RX321        | 24872153 | Chip, 15k ohm, 1/16W    |
| RX322        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX323        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX324        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX325        | 24000824 | Chip, Jumper, 2125 type |
| RX326        | 24872331 | Chip, 330 ohm, 1/16W    |
| RX327        | 24872471 | Chip, 470 ohm, 1/16W    |
| RX328        | 24872681 | Chip, 680 ohm, 1/16W    |
| RX329        | 24872100 | Chip, 10 ohm, 1/16W     |
| RX330        | 24872102 | Chip, 1k ohm, 1/16W     |
| RX331        | 24872151 | Chip, 150 ohm, 1/16W    |
| RX332        | 24872102 | Chip, 1k ohm, 1/16W     |
| RX334        | 24872681 | Chip, 680 ohm, 1/16W    |
| RX335        | 24872220 | Chip, 22 ohm, 1/16W     |
| RX341        | 24872153 | Chip, 15k ohm, 1/16W    |
| RX342        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX343        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX344        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX345        | 24000824 | Chip, Jumper, 2125 type |
| RX346        | 24872331 | Chip, 330 ohm, 1/16W    |
| RX347        | 24872471 | Chip, 470 ohm, 1/16W    |
| RX348        | 24872681 | Chip, 680 ohm, 1/16W    |
| RX349        | 24872100 | Chip, 10 ohm, 1/16W     |
| RX350        | 24872102 | Chip, 1k ohm, 1/16W     |
| RX351        | 24872121 | Chip, 120 ohm, 1/16W    |
| RX352        | 24872681 | Chip, 680 ohm, 1/16W    |
| RX354        | 24872681 | Chip, 680 ohm, 1/16W    |
| RX355        | 24872220 | Chip, 22 ohm, 1/16W     |
| RX361        | 24872153 | Chip, 15k ohm, 1/16W    |
| RX362        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX363        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX364        | 24872103 | Chip, 10k ohm, 1/16W    |
| RX365        | 24000824 | Chip, Jumper, 2125 type |
| RX366        | 24872331 | Chip, 330 ohm, 1/16W    |
| RX367        | 24872471 | Chip, 470 ohm, 1/16W    |
| RX368        | 24872681 | Chip, 680 ohm, 1/16W    |
| RX369        | 24872100 | Chip, 10 ohm, 1/16W     |
| RX370        | 24872102 | Chip, 1k ohm, 1/16W     |
| RX371        | 24872121 | Chip, 120 ohm, 1/16W    |
| RX372        | 24872681 | Chip, 680 ohm, 1/16W    |
| RX374        | 24872681 | Chip, 680 ohm, 1/16W    |
| RX375        | 24872220 | Chip, 22 ohm, 1/16W     |
| RX401        | 24000824 | Chip, Jumper, 2125 type |
| RX402        | 24872101 | Chip, 100 ohm, 1/16W    |
| RX403        | 24000824 | Chip, Jumper, 2125 type |
| RX404        | 24872101 | Chip, 100 ohm, 1/16W    |
| RX405        | 24000824 | Chip, Jumper, 2125 type |
| RX406        | 24872101 | Chip, 100 ohm, 1/16W    |
| RX407        | 24000824 | Chip, Jumper, 2125 type |
| RX408        | 24872101 | Chip, 100 ohm, 1/16W    |
| RX409        | 24000824 | Chip, Jumper, 2125 type |
| RX410        | 24872101 | Chip, 100 ohm, 1/16W    |
| RX411        | 24000824 | Chip, Jumper, 2125 type |
| RX412        | 24872101 | Chip, 100 ohm, 1/16W    |
| RX421        | 24872221 | Chip, 220 ohm, 1/16W    |
| RX422        | 24872221 | Chip, 220 ohm, 1/16W    |
| RX423        | 24872221 | Chip, 220 ohm, 1/16W    |
| RX424        | 24872221 | Chip, 220 ohm, 1/16W    |
| RX425        | 24872221 | Chip, 220 ohm, 1/16W    |
| RX427        | 24872221 | Chip, 220 ohm, 1/16W    |
| RX428        | 24872221 | Chip, 220 ohm, 1/16W    |
| RX429        | 24872221 | Chip, 220 ohm, 1/16W    |

| Location No. | Part No. | Description           |
|--------------|----------|-----------------------|
| RX430        | 24872221 | Chip, 220 ohm, 1/16W  |
| RX431        | 24547688 | FR, 0.68 ohm, 1W      |
| RX432        | 24871181 | Chip, 180 ohm, 1/8W   |
| RZ01         | 24872102 | Chip, 1k ohm, 1/16W   |
| RZ02         | 24872102 | Chip, 1k ohm, 1/16W   |
| RZ03         | 24872332 | Chip, 3300 ohm, 1/16W |
| RZ04         | 24872102 | Chip, 1k ohm, 1/16W   |
| RZ05         | 24872221 | Chip, 220 ohm, 1/16W  |
| RZ06         | 24872821 | Chip, 820 ohm, 1/16W  |
| RZ07         | 24872101 | Chip, 100 ohm, 1/16W  |
| RZ08         | 24872471 | Chip, 470 ohm, 1/16W  |
| RZ09         | 24872101 | Chip, 100 ohm, 1/16W  |
| RZ10         | 24872222 | Chip, 2200 ohm, 1/16W |
| RZ11         | 24872101 | Chip, 100 ohm, 1/16W  |
| RZ12         | 24872122 | Chip, 1200 ohm, 1/16W |
| RZ13         | 24872102 | Chip, 1k ohm, 1/16W   |
| RZ14         | 24872102 | Chip, 1k ohm, 1/16W   |
| RZ15         | 24872102 | Chip, 1k ohm, 1/16W   |
| RZ17         | 24872221 | Chip, 220 ohm, 1/16W  |
| RZ18         | 24872471 | Chip, 470 ohm, 1/16W  |
| RZ19         | 24872102 | Chip, 1k ohm, 1/16W   |
| RZ20         | 24872101 | Chip, 100 ohm, 1/16W  |
| RZ22         | 24872222 | Chip, 2200 ohm, 1/16W |
| RZ29         | 24872331 | Chip, 330 ohm, 1/16W  |
| RZ30         | 24872331 | Chip, 330 ohm, 1/16W  |

## COILS & TRANSFORMERS

|      |          |                                |
|------|----------|--------------------------------|
| L101 | 23221803 | Coil, Choke, TLN3040D          |
| L200 | 23289479 | Coil, Peaking, TRF44R7AF       |
| L201 | 23289100 | Coil, Peaking, TRF4100AF       |
| L301 | 23103859 | Coil (Ferrite Bead), TEM2011   |
| L333 | 23238702 | Coil, Peaking, TRF4101AJ       |
| L400 | 23289101 | Coil, Peaking, TRF4101AF       |
| L400 | 23289101 | Coil, Peaking, TRF4101AF       |
| L410 | 23103859 | Coil (Ferrite Bead), TEM2011   |
| L441 | 23233982 | Coil, Linearity, TLN2158AG     |
| L442 | 23248216 | Coil, Choke, TLN3459AH         |
| L443 | 23248165 | Coil, Choke, TLN3438AD         |
| L449 | 23103859 | Coil (Ferrite Bead), TEM2011   |
| L461 | 23248183 | Coil, Choke, TLN3343AD         |
| L470 | 23103859 | Coil (Ferrite Bead), TEM2011   |
| L491 | 23211923 | Coil, Choke, AT4043/100        |
| L501 | 23289100 | Coil, Peaking, TRF4100AF       |
| L502 | 23103852 | Coil, Filter, TEM2028AH        |
| L503 | 23289470 | Coil, Peaking, TRF4470AF       |
| L507 | 23103852 | Coil, Filter, TEM2028AH        |
| L508 | 23103852 | Coil, Filter, TEM2028AH        |
| L509 | 23103852 | Coil, Filter, TEM2028AH        |
| L510 | 23238718 | Coil, Peaking, TRF4479AJ       |
| L512 | 23103845 | Filter, TEM2030AY              |
| L513 | 23103845 | Filter, TEM2030AY              |
| L601 | 23238714 | Coil, Peaking, TRF4100AJ       |
| L602 | 23238714 | Coil, Peaking, TRF4100AJ       |
| L605 | 23289109 | Coil, Peaking, TRF41R0AF       |
| L643 | 23103888 | Chip (Ferrite Bead), TEM2131AM |
| L644 | 23103888 | Chip (Ferrite Bead), TEM2131AM |
| L671 | 23103888 | Chip (Ferrite Bead), TEM2131AM |
| L672 | 23103888 | Chip (Ferrite Bead), TEM2131AM |
| L676 | 23103832 | Chip (Ferrite Bead), TEM2125AM |

| Location No. | Part No. | Description                    |
|--------------|----------|--------------------------------|
| L677         | 23103832 | Chip (Ferrite Bead), TEM2125AM |
| L682         | 23103832 | Chip (Ferrite Bead), TEM2125AM |
| L683         | 23103832 | Chip (Ferrite Bead), TEM2125AM |
| L684         | 23289109 | Coil, Peaking, TRF41R0AF       |
| L685         | 23289109 | Coil, Peaking, TRF41R0AF       |
| L701         | 23289100 | Coil, Peaking, TRF4100AF       |
| L702         | 23261974 | Coil, Choke, HC5-035           |
| L704         | 23103859 | Coil (Ferrite Bead), TEM2011   |
| L705         | 23103859 | Coil (Ferrite Bead), TEM2011   |
| L801         | 23217383 | Transformer, Choke, TPW2012AE  |
| L811         | 23103859 | Coil (Ferrite Bead), TEM2011   |
| L876         | 23280016 | Coil, Peaking, TRF4100AZ       |
| L883         | 23221747 | Coil, Choke, TRF9253D          |
| L885         | 23248073 | Coil, Choke, TLN3299D          |
| L886         | 23103859 | Coil (Ferrite Bead), TEM2011   |
| L889         | 23222694 | Coil, Width, TLN2026           |
| L891         | 23103859 | Coil (Ferrite Bead), TEM2011   |
| L892         | 23103859 | Coil (Ferrite Bead), TEM2011   |
| L893         | 23280016 | Coil, Peaking, TRF4100AZ       |
| L894         | 23289100 | Coil, Peaking, TRF4100AF       |
| L896         | 23103859 | Coil (Ferrite Bead), TEM2011   |
| L897         | 23222694 | Coil, Width, TLN2026           |
| △L901        | 23200299 | Coil, Degaussing, TSB-2370AR   |
| L902         | 23289101 | Coil, Peaking, TRF4101AF       |
| L903         | 23289101 | Coil, Peaking, TRF4101AF       |
| L904         | 23289101 | Coil, Peaking, TRF4101AF       |
| L905         | 23289150 | Coil, Peaking, TRF4150AF       |
| L906         | 23289150 | Coil, Peaking, TRF4150AF       |
| L907         | 23289150 | Coil, Peaking, TRF4150AF       |
| L908         | 23289100 | Coil, Peaking, TRF4100AF       |
| L910         | 23289109 | Coil, Peaking, TRF41R0AF       |
| L4370        | 23289101 | Coil, Peaking, TRF4101AF       |
| LA01         | 23289100 | Coil, Peaking, TRF4100AF       |
| LB01         | 23262261 | Coil, IF, TRF1177D             |
| LD89         | 23289470 | Coil, Peaking, TRF4470AF       |
| LF01         | 23238506 | Coil, Peaking, TRF4229AJ       |
| LF02         | 23238506 | Coil, Peaking, TRF4229AJ       |
| LF03         | 23238506 | Coil, Peaking, TRF4229AJ       |
| LF04         | 23238506 | Coil, Peaking, TRF4229AJ       |
| LF06         | 23238562 | Coil, Peaking, TRF4109AJ       |
| LF07         | 23238562 | Coil, Peaking, TRF4109AJ       |
| LF08         | 23238714 | Coil, Peaking, TRF4100AJ       |
| LF09         | 23238714 | Coil, Peaking, TRF4100AJ       |
| LF10         | 23238562 | Coil, Peaking, TRF4109AJ       |
| LF11         | 23289109 | Coil, Peaking, TRF41R0AF       |
| LF13         | 23289100 | Coil, Peaking, TRF4100AF       |
| LF17         | 23289100 | Coil, Peaking, TRF4100AF       |
| LK01         | 23289100 | Coil, Peaking, TRF4100AF       |
| LK50         | 23289100 | Coil, Peaking, TRF4100AF       |
| LQ03         | 23289470 | Coil, Peaking, TRF4470AF       |
| LQ04         | 23238718 | Coil, Peaking, TRF4479AJ       |
| LR01         | 23289109 | Coil, Peaking, TRF41R0AF       |
| LR01         | 23289100 | Coil, Peaking, TRF4100AF       |
| LR02         | 23289109 | Coil, Peaking, TRF41R0AF       |
| LR25         | 23103845 | Filter, TEM2030AY              |
| LR26         | 23103845 | Filter, TEM2030AY              |
| LR27         | 23103845 | Filter, TEM2030AY              |
| LV03         | 23103852 | Coil, Filter, TEM2028AH        |

| Location No. | Part No. | Description                    |
|--------------|----------|--------------------------------|
| LV06         | 23103832 | Chip (Ferrite Bead), TEM2125AM |
| LV07         | 23103832 | Chip (Ferrite Bead), TEM2125AM |
| LV08         | 23289330 | Coil, Peaking, TRF4330AF       |
| LV09         | 23289100 | Coil, Peaking, TRF4100AF       |
| LV10         | 23289220 | Coil, Peaking, TRF4220AF       |
| LV11         | 23289330 | Coil, Peaking, TRF4330AF       |
| LV42         | 23289100 | Coil, Peaking, TRF4100AF       |
| LV43         | 23289100 | Coil, Peaking, TRF4100AF       |
| LV49         | 23103852 | Coil, Filter, TEM2028AH        |
| LX101        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX102        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX103        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX104        | 23245827 | Chip, Inductor, TRF45R6CB      |
| LX105        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX106        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX107        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX108        | 24000824 | Chip, Jumper, 2125 type        |
| LX110        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX141        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX142        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX143        | 23245835 | Chip, Inductor, TRF4270CB      |
| LX144        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX145        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX146        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX147        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX148        | 23245835 | Chip, Inductor, TRF4270CB      |
| LX149        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX150        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX152        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX153        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX154        | 24000824 | Chip, Jumper, 2125 type        |
| LX156        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX157        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX158        | 24000824 | Chip, Jumper, 2125 type        |
| LX201        | 23103886 | Chip (Ferrite Bead), TEM2129AM |
| LX202        | 24000824 | Chip, Jumper, 2125 type        |
| LX221        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX222        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX223        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX224        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX226        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX227        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX231        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX232        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX233        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX234        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX236        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX237        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX241        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX242        | 24000824 | Chip, Jumper, 2125 type        |
| LX261        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX262        | 24000824 | Chip, Jumper, 2125 type        |
| LX271        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX272        | 24000824 | Chip, Jumper, 2125 type        |
| LX301        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX302        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX303        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX304        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX305        | 24000824 | Chip, Jumper, 2125 type        |
| LX321        | 23103822 | Chip (Ferrite Bead), TEM2117T  |
| LX322        | 23245825 | Chip, Inductor, TRF43R6CB      |

| Location No.          | Part No. | Description                         |
|-----------------------|----------|-------------------------------------|
| LX323                 | 24000824 | Chip, Jumper, 2125 type             |
| LX341                 | 23103822 | Chip (Ferrite Bead), TEM2117T       |
| LX342                 | 23245826 | Chip, Inductor, TRF44R7CB           |
| LX343                 | 24000824 | Chip, Jumper, 2125 type             |
| LX361                 | 23103822 | Chip (Ferrite Bead), TEM2117T       |
| LX362                 | 23245826 | Chip, Inductor, TRF44R7CB           |
| LX363                 | 24000824 | Chip, Jumper, 2125 type             |
| LX401                 | 23103880 | Coil (Ferrite Bead), TEM2011Y       |
| LX402                 | 23103822 | Chip (Ferrite Bead), TEM2117T       |
| LX403                 | 23103822 | Chip (Ferrite Bead), TEM2117T       |
| LX404                 | 23103822 | Chip (Ferrite Bead), TEM2117T       |
| LX405                 | 23103822 | Chip (Ferrite Bead), TEM2117T       |
| LX407                 | 23103822 | Chip (Ferrite Bead), TEM2117T       |
| LX421                 | 23238562 | Coil, Peaking, TRF4109AJ            |
| LX422                 | 23238562 | Coil, Peaking, TRF4109AJ            |
| LX423                 | 23238562 | Coil, Peaking, TRF4109AJ            |
| LX424                 | 23238562 | Coil, Peaking, TRF4109AJ            |
| LX425                 | 23238562 | Coil, Peaking, TRF4109AJ            |
| LX427                 | 23238562 | Coil, Peaking, TRF4109AJ            |
| LX428                 | 23238562 | Coil, Peaking, TRF4109AJ            |
| LX429                 | 23238562 | Coil, Peaking, TRF4109AJ            |
| LX430                 | 23238562 | Coil, Peaking, TRF4109AJ            |
| LX431                 | 23103880 | Coil (Ferrite Bead), TEM2011Y       |
| LX432                 | 23103880 | Coil (Ferrite Bead), TEM2011Y       |
| LX434                 | 23103880 | Coil (Ferrite Bead), TEM2011Y       |
| LZ01                  | 23238710 | Coil, Peaking, TRF4220AJ            |
| LZ02                  | 23238714 | Coil, Peaking, TRF4100AJ            |
| LZ03                  | 23238714 | Coil, Peaking, TRF4100AJ            |
| LZ04                  | 23238714 | Coil, Peaking, TRF4100AJ            |
| LZ05                  | 23238714 | Coil, Peaking, TRF4100AJ            |
| LZ08                  | 23238707 | Coil, Peaking, TRF4390AJ            |
| LZ09                  | 70131060 | Filter, ZBF253D-00                  |
| LZ10                  | 70131060 | Filter, ZBF253D-00                  |
| T400                  | 23224364 | Transformer, Focus, TLN2168AH       |
| T401                  | 23224371 | Transformer, Horiz Drive, TLN1080AH |
| △ T461                | 23236517 | Transformer, Flyback, TFB3079AR     |
| △ T461A               | 23236447 | Transformer, Flyback, TFB4115AR     |
| T801                  | 23211717 | Line Filter, TRF3164AM              |
| T802                  | 23211717 | Line Filter, TRF3164AM              |
| T803                  | 23211719 | Line Filter, TRF3209AM              |
| △ T863                | 23217434 | Transformer, Converter, TPW3427AG   |
| <b>SEMICONDUCTORS</b> |          |                                     |
| Q200                  | A6330059 | Transistor, 2SC2482(C)              |
| Q201                  | A6335470 | Transistor, 2SC2712-Y               |
| Q202                  | A6541130 | Transistor, 2SA1162-Y               |
| Q203                  | A6541130 | Transistor, 2SA1162-Y               |
| Q204                  | A6541130 | Transistor, 2SA1162-Y               |
| Q205                  | A6541130 | Transistor, 2SA1162-Y               |
| Q206                  | A6335470 | Transistor, 2SC2712-Y               |
| Q237                  | A6335470 | Transistor, 2SC2712-Y               |
| Q261                  | A6335470 | Transistor, 2SC2712-Y               |
| Q262                  | A6541130 | Transistor, 2SA1162-Y               |
| Q270                  | A6004040 | Transistor, RN1404                  |
| Q271                  | A6004040 | Transistor, RN1404                  |
| Q272                  | A6014040 | Transistor, RN2404                  |
| Q273                  | A6335470 | Transistor, 2SC2712-Y               |
| Q301                  | 23905610 | IC, LA7846N                         |
| Q301B                 | 70391355 | Screw, BITTB3X8SZN                  |

| Location No. | Part No. | Description                 |
|--------------|----------|-----------------------------|
| Q303         | A6534040 | Transistor, 2SA1015-Y       |
| Q304         | A6317440 | Transistor, 2SC1815-Y       |
| Q305         | 23906077 | IC, TCA0372DP1              |
| Q360         | A6335470 | Transistor, 2SC2712-Y       |
| Q362         | A6002050 | Transistor, RN1205          |
| Q370         | A6534040 | Transistor, 2SA1015-Y       |
| Q402         | A6325419 | Transistor, 2SC2235-O(FA    |
| Q404         | A6374144 | Transistor, 2SC5570         |
| Q404B        | A8012650 | Spacer, AC263               |
| Q404D        | 72471082 | Screw, BRDT2W3X10 SZN       |
| Q418         | 23314141 | Transistor, 2SC3852         |
| Q418B        | 70391355 | Screw, BITTB3X8SZN          |
| Q420         | 23314141 | Transistor, 2SC3852         |
| Q420B        | 70391355 | Screw, BITTB3X8SZN          |
| Q421         | A6317440 | Transistor, 2SC1815-Y       |
| Q430         | 23314141 | Transistor, 2SC3852         |
| Q430B        | 70391355 | Screw, BITTB3X8SZN          |
| Q460         | 23314850 | Transistor, 2SA1788-E       |
| Q460B        | 72471082 | Screw, BRDT2W3X10 SZN       |
| Q461         | A6317440 | Transistor, 2SC1815-Y       |
| Q462         | A6317440 | Transistor, 2SC1815-Y       |
| Q470         | A6317440 | Transistor, 2SC1815-Y       |
| Q501         | B0386208 | IC, TA1276AN                |
| Q502         | A6335470 | Transistor, 2SC2712-Y       |
| Q503         | A6541130 | Transistor, 2SA1162-Y       |
| Q504         | A6335470 | Transistor, 2SC2712-Y       |
| Q518         | A6335470 | Transistor, 2SC2712-Y       |
| Q608         | A6534040 | Transistor, 2SA1015-Y       |
| Q612         | A6534040 | Transistor, 2SA1015-Y       |
| Q620         | 23906596 | IC, BA4558                  |
| Q639         | A6342200 | Transistor, 2SC2878-A       |
| Q640         | B0377308 | IC, TA8256BH                |
| Q640B        | 70391355 | Screw, BITTB3X8SZN          |
| Q641         | A6342200 | Transistor, 2SC2878-A       |
| Q642         | A6342200 | Transistor, 2SC2878-A       |
| Q670         | B0377308 | IC, TA8256BH                |
| Q670B        | 70391355 | Screw, BITTB3X8SZN          |
| Q671         | A6342200 | Transistor, 2SC2878-A       |
| Q672         | A6342200 | Transistor, 2SC2878-A       |
| Q673         | A6342200 | Transistor, 2SC2878-A       |
| Q688         | A6002040 | Transistor, RN1204          |
| Q705         | A6317440 | Transistor, 2SC1815-Y       |
| Q706         | A6317440 | Transistor, 2SC1815-Y       |
| Q707         | A6734590 | Transistor, 2SC752(G)TM-Y   |
| Q709         | A6317440 | Transistor, 2SC1815-Y       |
| Q710         | A6534040 | Transistor, 2SA1015-Y       |
| Q711         | 23314911 | Transistor, 2SB1569A        |
| Q711B        | 70391355 | Screw, BITTB3X8SZN          |
| Q712         | 23314914 | Transistor, 2SD2400A        |
| Q712B        | 70391355 | Screw, BITTB3X8SZN          |
| Q719         | A6317440 | Transistor, 2SC1815-Y       |
| Q801         | 23135008 | IC, STR-F6668B              |
| Q801B        | 72471082 | Screw, BRDT2W3X10 SZN       |
| Q802         | 23314141 | Transistor, 2SC3852         |
| Q802B        | 70391355 | Screw, BITTB3X8SZN          |
| Q807         | A6317440 | Transistor, 2SC1815-Y       |
| △ Q826       | A8643108 | Photo Coupler, TLP621(GR)LF |
| Q830         | 23314141 | Transistor, 2SC3852         |
| Q830B        | 70391355 | Screw, BITTB3X8SZN          |
| Q831         | 23314141 | Transistor, 2SC3852         |
| Q831B        | 70391355 | Screw, BITTB3X8SZN          |
| Q832         | 23905977 | IC, PQ09RD11                |
| Q832B        | 70391355 | Screw, BITTB3X8SZN          |
| Q833         | 23314141 | Transistor, 2SC3852         |



| Location No. | Part No. | Description               |
|--------------|----------|---------------------------|
| Q833B        | 70391355 | Screw, BITTB3X8SZN        |
| Q840         | 23318299 | IC, L78MR05               |
| Q840B        | 70391355 | Screw, BITTB3X8SZN        |
| Q901         | A6368700 | Transistor, 2SC4544       |
| Q901B        | 70391355 | Screw, BITTB3X8SZN        |
| Q902         | A6317440 | Transistor, 2SC1815-Y     |
| Q903         | A6368700 | Transistor, 2SC4544       |
| Q903B        | 70391355 | Screw, BITTB3X8SZN        |
| Q904         | A6317440 | Transistor, 2SC1815-Y     |
| Q905         | A6368700 | Transistor, 2SC4544       |
| Q905B        | 70391355 | Screw, BITTB3X8SZN        |
| Q906         | A6317440 | Transistor, 2SC1815-Y     |
| Q907         | A6509140 | Transistor, 2SA562TMY     |
| Q908         | A6321240 | Transistor, 2SC2120-Y     |
| Q910         | A6317440 | Transistor, 2SC1815-Y     |
| Q911         | A6317440 | Transistor, 2SC1815-Y     |
| Q912         | A6534040 | Transistor, 2SA1015-Y     |
| Q913         | A6534040 | Transistor, 2SA1015-Y     |
| Q914         | A6317440 | Transistor, 2SC1815-Y     |
| Q917         | A6317440 | Transistor, 2SC1815-Y     |
| Q918         | A6534040 | Transistor, 2SA1015-Y     |
| Q919         | A6317440 | Transistor, 2SC1815-Y     |
| Q920         | A6534040 | Transistor, 2SA1015-Y     |
| Q921         | A6317440 | Transistor, 2SC1815-Y     |
| Q922         | A6317440 | Transistor, 2SC1815-Y     |
| Q4370        | B0385853 | IC, TA1241AN              |
| Q4420        | B0386500 | IC, TA1300N               |
| Q4460        | A6335470 | Transistor, 2SC2712-Y     |
| Q4462        | A6335470 | Transistor, 2SC2712-Y     |
| Q4490        | A8641063 | Photo Coupler, TLP521-1   |
| Q4491        | 23314917 | Transistor, 2SK2003-01MR  |
| Q4493        | A6317440 | Transistor, 2SC1815-Y     |
| QA01         | 23000099 | IC, 750096-103S           |
| QA02         | 23905666 | IC, AT24C161OPC           |
| QA03         | A6534040 | Transistor, 2SA1015-Y     |
| QA05         | A6734590 | Transistor, 2SC752(G)TM-Y |
| QB01         | A6317440 | Transistor, 2SC1815-Y     |
| QB03         | A6002050 | Transistor, RN1205        |
| QB30         | A6317440 | Transistor, 2SC1815-Y     |
| QB81         | A6342200 | Transistor, 2SC2878-A     |
| QB82         | A6342200 | Transistor, 2SC2878-A     |
| QB83         | A6534040 | Transistor, 2SA1015-Y     |
| QB92         | A6317440 | Transistor, 2SC1815-Y     |
| QB93         | A6534040 | Transistor, 2SA1015-Y     |
| QB94         | A6534040 | Transistor, 2SA1015-Y     |
| QB95         | A6534040 | Transistor, 2SA1015-Y     |
| QB96         | A6534040 | Transistor, 2SA1015-Y     |
| QD89         | A6317440 | Transistor, 2SC1815-Y     |
| QF01         | 23906822 | IC, SDA5273-2S C          |
| QF03         | 23314204 | Transistor, 2SC2412K,Q    |
| QF04         | A6734590 | Transistor, 2SC752(G)TM-Y |
| QF10         | 23906641 | IC, AS4C14400             |
| QK05         | 23906179 | IC, MM1327XD              |
| QK06         | A6335470 | Transistor, 2SC2712-Y     |
| QK07         | 70119743 | IC, PST523D               |
| QK10         | A6335470 | Transistor, 2SC2712-Y     |
| QK11         | A6541130 | Transistor, 2SA1162-Y     |
| QK12         | A6361770 | Transistor, 2SC3437-Y     |
| QK30         | A6335470 | Transistor, 2SC2712-Y     |
| QK31         | A6335470 | Transistor, 2SC2712-Y     |
| QK32         | A6335470 | Transistor, 2SC2712-Y     |
| QQ02         | B0383881 | IC, TA8772AN              |
| QQ03         | A6335470 | Transistor, 2SC2712-Y     |
| QQ04         | A6335470 | Transistor, 2SC2712-Y     |

| Location No. | Part No. | Description           |
|--------------|----------|-----------------------|
| QR01         | B0386235 | IC, TA1287P           |
| QR01         | 23000947 | IC, MB90096-186       |
| QR03         | 23114530 | Transistor, 2SA933S-Q |
| QR05         | A6317440 | Transistor, 2SC1815-Y |
| QR21         | A6335470 | Transistor, 2SC2712-Y |
| QR24         | A6335470 | Transistor, 2SC2712-Y |
| QS01         | A6359870 | Transistor, 2SC3326-B |
| QS02         | A6359870 | Transistor, 2SC3326-B |
| QS03         | A6335470 | Transistor, 2SC2712-Y |
| QS04         | A6335470 | Transistor, 2SC2712-Y |
| QS05         | A6359870 | Transistor, 2SC3326-B |
| QS06         | A6359870 | Transistor, 2SC3326-B |
| QS07         | A6014040 | Transistor, RN2404    |
| QS08         | A6359870 | Transistor, 2SC3326-B |
| QS09         | A6359870 | Transistor, 2SC3326-B |
| QV01         | B0385650 | IC, TA1218N           |
| QV02         | A6317440 | Transistor, 2SC1815-Y |
| QV06         | A6541130 | Transistor, 2SA1162-Y |
| QV07         | A6359870 | Transistor, 2SC3326-B |
| QV08         | A6335470 | Transistor, 2SC2712-Y |
| QV09         | A6317440 | Transistor, 2SC1815-Y |
| QV10         | A6335470 | Transistor, 2SC2712-Y |
| QV11         | A6335470 | Transistor, 2SC2712-Y |
| QV12         | A6317440 | Transistor, 2SC1815-Y |
| QV14         | A6317440 | Transistor, 2SC1815-Y |
| QV15         | A6359870 | Transistor, 2SC3326-B |
| QX01         | 23906921 | IC, TC90A61F          |
| QX02         | 23906657 | IC, MB81G163222       |
| QX03         | 23905013 | IC, TLC2932IPW        |
| QX04         | A6030620 | IC, TC7S04F           |
| QX05         | 23906951 | IC, SN74AHCT1G32      |
| QX07         | 23905939 | IC, TLC2932IPW        |
| QX08         | A6030620 | IC, TC7S04F           |
| QX09         | 23906951 | IC, SN74AHCT1G32      |
| QX10         | 23906951 | IC, SN74AHCT1G32      |
| QX11         | 23906318 | IC, ADS932E           |
| QX12         | 23906318 | IC, ADS932E           |
| QX13         | B0489209 | IC, TC74ACT74F        |
| QX14         | A6335470 | Transistor, 2SC2712-Y |
| QX15         | 70128490 | IC, MM1031XMR         |
| QX16         | 23314345 | Transistor, IMZ1      |
| QX17         | A6335470 | Transistor, 2SC2712-Y |
| QX18         | A6541130 | Transistor, 2SA1162-Y |
| QX19         | A6541130 | Transistor, 2SA1162-Y |
| QX20         | A6030670 | IC, TC7S66F           |
| QX21         | A6335470 | Transistor, 2SC2712-Y |
| QX22         | 23314347 | IC, IMX2T109          |
| QX23         | A6335470 | Transistor, 2SC2712-Y |
| QX24         | 23314344 | Transistor, IMX1      |
| QX25         | A6030670 | IC, TC7S66F           |
| QX26         | A6541130 | Transistor, 2SA1162-Y |
| QX27         | A6030670 | IC, TC7S66F           |
| QX28         | A6335470 | Transistor, 2SC2712-Y |
| QX29         | 23314347 | IC, IMX2T109          |
| QX30         | A6335470 | Transistor, 2SC2712-Y |
| QX31         | 23314344 | Transistor, IMX1      |
| QX32         | A6030670 | IC, TC7S66F           |
| QX33         | A6541130 | Transistor, 2SA1162-Y |
| QX34         | A6030670 | IC, TC7S66F           |
| QX35         | A6335470 | Transistor, 2SC2712-Y |
| QX36         | A6541130 | Transistor, 2SA1162-Y |
| QX37         | A6335470 | Transistor, 2SC2712-Y |
| QX38         | A6335470 | Transistor, 2SC2712-Y |
| QX39         | A6335470 | Transistor, 2SC2712-Y |

| Location No. | Part No. | Description            |
|--------------|----------|------------------------|
| QX40         | 23314347 | IC, IMX2T109           |
| QX41         | A6335470 | Transistor, 2SC2712-Y  |
| QX42         | A6335470 | Transistor, 2SC2712-Y  |
| QX43         | 23314347 | IC, IMX2T109           |
| QX44         | A6335470 | Transistor, 2SC2712-Y  |
| QX45         | A6335470 | Transistor, 2SC2712-Y  |
| QX46         | 23314347 | IC, IMX2T109           |
| QX47         | A6335470 | Transistor, 2SC2712-Y  |
| QX48         | A6335470 | Transistor, 2SC2712-Y  |
| QX49         | A6030871 | IC, TC7W04F(BRA)       |
| QX50         | B0485484 | IC, TC74HCT541AF       |
| QX51         | 23906770 | IC, BA033FP-E2         |
| QX52         | A6030695 | IC, TC7SH32FU(BR       |
| QX53         | A6030695 | IC, TC7SH32FU(BR       |
| QX54         | A6004010 | Transistor, RN1401     |
| QX55         | B0370000 | IC, TA78L05F           |
| QZ01         | B0410895 | IC, TC90A49P           |
| QZ02         | A6335470 | Transistor, 2SC2712-Y  |
| QZ03         | A6541130 | Transistor, 2SA1162-Y  |
| QZ04         | A6541130 | Transistor, 2SA1162-Y  |
| QZ05         | A6541130 | Transistor, 2SA1162-Y  |
| QZ06         | A6541130 | Transistor, 2SA1162-Y  |
| QZ07         | A6541130 | Transistor, 2SA1162-Y  |
| QZ08         | A6335470 | Transistor, 2SC2712-Y  |
| D101         | 23316411 | Diode, 1SS184          |
| D201         | 23118041 | Diode, MA111-(TX)      |
| D240         | 23115599 | Diode, 1N4148          |
| D301         | 23118479 | Diode, BYD33J          |
| D302         | 23118479 | Diode, BYD33J          |
| D303         | 23316794 | Diode, SC570A          |
| D312         | 23115599 | Diode, 1N4148          |
| D313         | 23115599 | Diode, 1N4148          |
| D370         | 23316658 | Diode, Zener, MTZJ3.6A |
| D371         | 23115599 | Diode, 1N4148          |
| D404         | 23357043 | Diode, FMQ-G5GS        |
| D404B        | 72471082 | Screw, BRDT2W3X10 SZN  |
| D406         | 23118479 | Diode, BYD33J          |
| D418         | 23316749 | Diode, Zener, MTZJ30A  |
| D419         | 23316691 | Diode, Zener, MTZJ10C  |
| D420         | 23316715 | Diode, Zener, MTZJ11A  |
| D421         | 23316680 | Diode, Zener, MTZJ7.5A |
| D422         | 23316726 | Diode, Zener, MTZJ15C  |
| D431         | 23316670 | Diode, Zener, MTZJ5.1C |
| D432         | 23316670 | Diode, Zener, MTZJ5.1C |
| D436         | 23115599 | Diode, 1N4148          |
| D441         | 23316687 | Diode, Zener, MTZJ9.1B |
| D460         | 23118479 | Diode, BYD33J          |
| D461         | 23316803 | Diode, FMU-G16S        |
| D461B        | 70391355 | Screw, BITTB3X8SZN     |
| D463         | 23115599 | Diode, 1N4148          |
| D464         | 23316749 | Diode, Zener, MTZJ30A  |
| D466         | 23316672 | Diode, Zener, MTZJ5.6B |
| D467         | 23118479 | Diode, BYD33J          |
| D474         | 23316719 | Diode, Zener, MTZJ12B  |
| D488         | 23115599 | Diode, 1N4148          |
| D490         | 23115599 | Diode, 1N4148          |
| D498         | 23316742 | Diode, Zener, MTZJ24B  |
| D499         | 23115599 | Diode, 1N4148          |
| D501         | 23115599 | Diode, 1N4148          |
| D505         | 23115599 | Diode, 1N4148          |
| D611         | 23115599 | Diode, 1N4148          |
| D612         | 23115599 | Diode, 1N4148          |
| D613         | 23115599 | Diode, 1N4148          |
| D614         | 23115599 | Diode, 1N4148          |

| Location No. | Part No. | Description            |
|--------------|----------|------------------------|
| D624         | 23115599 | Diode, 1N4148          |
| D625         | 23115599 | Diode, 1N4148          |
| D626         | 23115599 | Diode, 1N4148          |
| D627         | 23115599 | Diode, 1N4148          |
| D628         | 23115599 | Diode, 1N4148          |
| D630         | 23115599 | Diode, 1N4148          |
| D640         | 23115599 | Diode, 1N4148          |
| D641         | 23115599 | Diode, 1N4148          |
| D642         | 23115599 | Diode, 1N4148          |
| D643         | 23115599 | Diode, 1N4148          |
| D647         | 23115599 | Diode, 1N4148          |
| D648         | 23115599 | Diode, 1N4148          |
| D670         | 23115599 | Diode, 1N4148          |
| D671         | 23115599 | Diode, 1N4148          |
| D674         | 23115599 | Diode, 1N4148          |
| D675         | 23115599 | Diode, 1N4148          |
| D683         | 23115599 | Diode, 1N4148          |
| D684         | 23115599 | Diode, 1N4148          |
| D704         | 23115599 | Diode, 1N4148          |
| D705         | 23115599 | Diode, 1N4148          |
| D715         | 23115599 | Diode, 1N4148          |
| D721         | 23115599 | Diode, 1N4148          |
| D801         | 23357041 | Diode, LN6SB60-F05     |
| D804         | 23316725 | Diode, Zener, MTZJ15B  |
| D805         | 23316553 | Diode, 1SS145          |
| D806         | 23118479 | Diode, BYD33J          |
| D810         | 23316738 | Diode, Zener, MTZJ22B  |
| D811         | 23115599 | Diode, 1N4148          |
| D815         | 23316746 | Diode, Zener, MTZJ27B  |
| D817         | 23115599 | Diode, 1N4148          |
| D818         | 23316738 | Diode, Zener, MTZJ22B  |
| D819         | 23316678 | Diode, Zener, MTZJ6.8B |
| D828         | 23115599 | Diode, 1N4148          |
| D836         | 23316673 | Diode, Zener, MTZJ5.6C |
| D841         | 23115599 | Diode, 1N4148          |
| D871         | 23118479 | Diode, BYD33J          |
| D883         | 23316406 | Diode, FML-G16S        |
| D883B        | 70391355 | Screw, BITTB3X8SZN     |
| D885         | 23316642 | Diode, YG911S2R        |
| D885B        | 70391355 | Screw, BITTB3X8SZN     |
| D891         | 23357020 | Diode, SF5S4           |
| D891B        | 70391355 | Screw, BITTB3X8SZN     |
| D892         | 23316184 | Diode, FML-G12S        |
| D892B        | 70391355 | Screw, BITTB3X8SZN     |
| D893         | 23316673 | Diode, Zener, MTZJ5.6C |
| D894         | 23316673 | Diode, Zener, MTZJ5.6C |
| D896         | 23118479 | Diode, BYD33J          |
| D901         | 23115599 | Diode, 1N4148          |
| D904         | 23115599 | Diode, 1N4148          |
| D905         | 23115599 | Diode, 1N4148          |
| D906         | 23115599 | Diode, 1N4148          |
| D907         | 23115599 | Diode, 1N4148          |
| D908         | 23115599 | Diode, 1N4148          |
| D909         | 23115599 | Diode, 1N4148          |
| D911         | 23118479 | Diode, BYD33J          |
| D912         | 23115599 | Diode, 1N4148          |
| D4371        | 23115599 | Diode, 1N4148          |
| D4386        | 23316718 | Diode, Zener, MTZJ12A  |
| D4387        | 23316718 | Diode, Zener, MTZJ12A  |
| D4388        | 23316718 | Diode, Zener, MTZJ12A  |
| DA01         | 23115599 | Diode, 1N4148          |
| DA02         | 23115599 | Diode, 1N4148          |
| DA03         | 23115599 | Diode, 1N4148          |
| DA42         | 23115599 | Diode, 1N4148          |

| Location No.         | Part No. | Description                |
|----------------------|----------|----------------------------|
| DB01                 | 23358505 | LED, SLR56VC196F           |
| DB02                 | 23358503 | LED, SCL003MC3FX           |
| DB30                 | 23115599 | Diode, 1N4148              |
| DF01                 | 23316654 | Diode, Zener, MTZJ3.0A     |
| DR01                 | 23115599 | Diode, 1N4148              |
| DR02                 | 23316557 | Diode, HSM221C             |
| DR02                 | 23115599 | Diode, 1N4148              |
| DR03                 | 23118351 | Diode, Zener, RD4.7M-T1BB2 |
| DR03                 | 23115599 | Diode, 1N4148              |
| DV01                 | 23118296 | Diode, Zener, RD9.1M-T1BB2 |
| DV01                 | 23115599 | Diode, 1N4148              |
| DV02                 | 23118296 | Diode, Zener, RD9.1M-T1BB2 |
| DV03                 | 23118296 | Diode, Zener, RD9.1M-T1BB2 |
| DV04                 | 23118296 | Diode, Zener, RD9.1M-T1BB2 |
| DV05                 | 23118296 | Diode, Zener, RD9.1M-T1BB2 |
| DV06                 | 23118296 | Diode, Zener, RD9.1M-T1BB2 |
| DV07                 | 23118296 | Diode, Zener, RD9.1M-T1BB2 |
| DV10                 | 23316557 | Diode, HSM221C             |
| DV11                 | 23316557 | Diode, HSM221C             |
| DV12                 | 23118296 | Diode, Zener, RD9.1M-T1BB2 |
| DV14                 | 23118296 | Diode, Zener, RD9.1M-T1BB2 |
| DX201                | A7238420 | Diode, Zener, 02CZ5.1-Y    |
| DX202                | A7238420 | Diode, Zener, 02CZ5.1-Y    |
| DX203                | A7238420 | Diode, Zener, 02CZ5.1-Y    |
| DX401                | A7238420 | Diode, Zener, 02CZ5.1-Y    |
| <b>MISCELLANEOUS</b> |          |                            |
| B207                 | 23037312 | Screw, BTBW3X12SZN         |
| B221                 | 23037312 | Screw, BTBW3X12SZN         |
| B223                 | 23035412 | Screw, BTB4X12SZN          |
| B224                 | 23037312 | Screw, BTBW3X12SZN         |
| B228                 | 23037312 | Screw, BTBW3X12SZN         |
| BB10                 | 23368627 | Plug, 8P, 2.5              |
| BB10A                | 23903022 | Socket, 8P, 2.5            |
| BB10B                | 23903022 | Socket, 8P, 2.5            |
| BB11                 | 23368627 | Plug, 8P, 2.5              |
| BB11A                | 23903022 | Socket, 8P, 2.5            |
| BB11B                | 23903022 | Socket, 8P, 2.5            |
| BB12                 | 23368627 | Plug, 8P, 2.5              |
| BB12A                | 23903022 | Socket, 8P, 2.5            |
| BB12B                | 23903022 | Socket, 8P, 2.5            |
| BB13                 | 23368627 | Plug, 8P, 2.5              |
| BB13A                | 23903022 | Socket, 8P, 2.5            |
| BB13B                | 23903022 | Socket, 8P, 2.5            |
| BB14                 | 23368627 | Plug, 8P, 2.5              |
| BB14A                | 23903022 | Socket, 8P, 2.5            |
| BB14B                | 23903022 | Socket, 8P, 2.5            |
| BB15                 | 23368627 | Plug, 8P, 2.5              |
| BB15A                | 23903022 | Socket, 8P, 2.5            |
| BB15B                | 23903022 | Socket, 8P, 2.5            |
| BB16                 | 23368627 | Plug, 8P, 2.5              |
| BB16A                | 23903022 | Socket, 8P, 2.5            |
| BB16B                | 23903022 | Socket, 8P, 2.5            |
| △F470                | 23144503 | Fuse, 1.25A                |
| F470A                | 23165433 | Holder, Fuse               |
| △F801                | 23144508 | Fuse, 4.0A                 |
| F801A                | 23165433 | Holder, Fuse               |
| △F802                | 23144506 | Fuse, 2.5A                 |
| F802A                | 23165433 | Holder, Fuse               |
| △F889                | 23144458 | Fuse, 5.0A                 |
| F889A                | 23165433 | Holder, Fuse               |
| G299                 | 24366103 | CF, 10k ohm                |
| G301                 | 24366472 | CF, 4700 ohm               |
| G306                 | 24366222 | CF, 2200 ohm               |

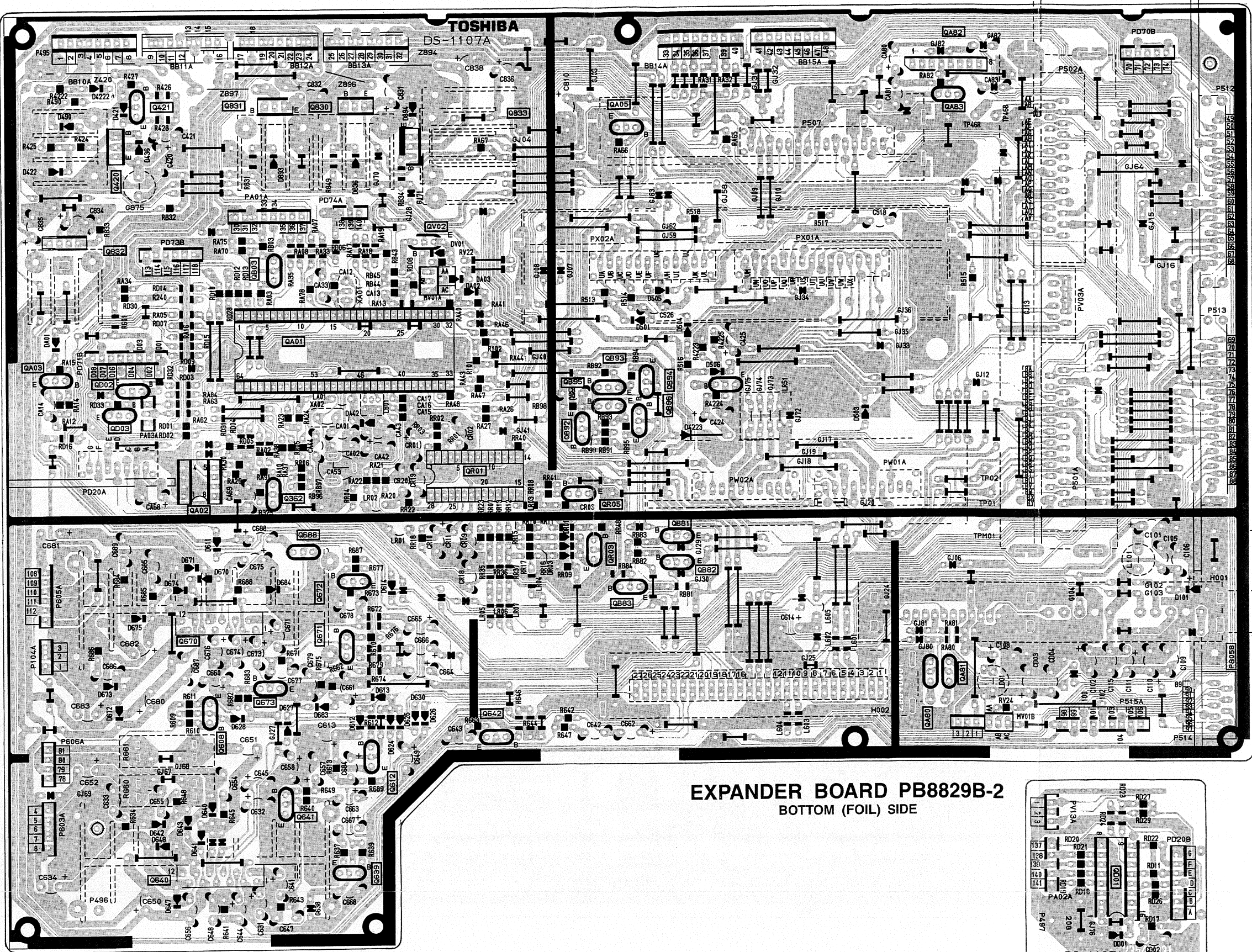
| Location No. | Part No. | Description                   |
|--------------|----------|-------------------------------|
| G312         | 24366272 | CF, 2700 ohm                  |
| G401         | 23103859 | Coil (Ferrite Bead), TEM2011  |
| G402         | 23103859 | Coil (Ferrite Bead), TEM2011  |
| G403         | 23103859 | Coil (Ferrite Bead), TEM2011  |
| G404         | 23103859 | Coil (Ferrite Bead), TEM2011  |
| G405         | 24366101 | CF, 100 ohm                   |
| G430         | 23115532 | Diode, ERB12-01               |
| G465         | 23316672 | Diode, Zener, MTZJ5.6B        |
| G510         | 23289479 | Coil, Peaking, TRF44R7AF      |
| G527         | 24567104 | PF, 0.1μF                     |
| G528         | 24567104 | PF, 0.1μF                     |
| G529         | 24567104 | PF, 0.1μF                     |
| G604         | 23103859 | Coil (Ferrite Bead), TEM2011  |
| G638         | 24366682 | CF, 6800 ohm                  |
| G824         | 23222694 | Coil, Width, TLN2026          |
| G911         | 23289101 | Coil, Peaking, TRF4101AF      |
| GJ02         | 24000824 | Chip, Jumper, 2125 type       |
| GJ06         | 24000824 | Chip, Jumper, 2125 type       |
| GJ06         | 24000824 | Chip, Jumper, 2125 type       |
| GJ07         | 24000824 | Chip, Jumper, 2125 type       |
| GJ08         | 24000824 | Chip, Jumper, 2125 type       |
| GJ09         | 24000824 | Chip, Jumper, 2125 type       |
| GJ10         | 24000824 | Chip, Jumper, 2125 type       |
| GJ26         | 24000824 | Chip, Jumper, 2125 type       |
| GJ27         | 24000824 | Chip, Jumper, 2125 type       |
| GJ28         | 24000824 | Chip, Jumper, 2125 type       |
| GJ34         | 24000824 | Chip, Jumper, 2125 type       |
| GJ35         | 24000824 | Chip, Jumper, 2125 type       |
| GJ36         | 24000824 | Chip, Jumper, 2125 type       |
| GJ37         | 24000824 | Chip, Jumper, 2125 type       |
| GJ38         | 24000824 | Chip, Jumper, 2125 type       |
| GJ61         | 24000824 | Chip, Jumper, 2125 type       |
| GJ62         | 24000824 | Chip, Jumper, 2125 type       |
| GS01         | 24000824 | Chip, Jumper, 2125 type       |
| GS43         | 24000824 | Chip, Jumper, 2125 type       |
| GS44         | 24000824 | Chip, Jumper, 2125 type       |
| GV05         | 23103832 | Chip (Ferrite Bead), TEM2125M |
| GV07         | 24000824 | Chip, Jumper, 2125 type       |
| GV08         | 24000824 | Chip, Jumper, 2125 type       |
| GV11         | 24000824 | Chip, Jumper, 2125 type       |
| GV13         | 24872681 | Chip, 680 ohm, 1/16W          |
| GV14         | 24000824 | Chip, Jumper, 2125 type       |
| GV15         | 24000824 | Chip, Jumper, 2125 type       |
| GV17         | 24000824 | Chip, Jumper, 2125 type       |
| GV38         | 24000824 | Chip, Jumper, 2125 type       |
| GV39         | 24000824 | Chip, Jumper, 2125 type       |
| GV40         | 24000824 | Chip, Jumper, 2125 type       |
| GV41         | 24872332 | Chip, 3300 ohm, 1/16W         |
| GV97         | 24872101 | Chip, 100 ohm, 1/16W          |
| H002         | 23148355 | Module, MPSA11, MPX APRO AC3  |
| KB01         | 23904946 | Remote Sensor, RPM-676CBR-S   |
| P004         | 23161702 | Terminal, 8P                  |
| P402A        | 23902781 | Socket, 12P, 2.5MM            |
| P402B        | 23368531 | Plug, 12P, 2.5MM              |
| P501A        | 23903025 | Socket, 25P                   |
| P502A        | 23903025 | Socket, 25P                   |
| P507         | 23902655 | Socket, B-B, 15P              |
| P512         | 23902863 | Socket, 20P 2MM               |
| P513         | 23902863 | Socket, 20P 2MM               |
| P610A        | 23902063 | Socket, 6P, 2.5MM             |
| P610B        | 23368005 | Plug, 6P, 2.5MM               |

| Location No. | Part No. | Description                         |
|--------------|----------|-------------------------------------|
| P661         | 23363607 | Headphone Jack, 3.5mm               |
| △P801        | 23372012 | Power Cord                          |
| PD04         | 23364092 | Jack, Pin(Orange)                   |
| PD05         | A5812240 | Optic Receiver, TORX176             |
| PF01A        | 23367724 | Connector, B-B, 15P                 |
| PH01         | 23902604 | Socket, 21P                         |
| PH02         | 23902604 | Socket, 21P                         |
| PH03         | 23902604 | Socket, 21P                         |
| PK01B        | 23368130 | Plug, 10P 2.5MM                     |
| PK02B        | 23368130 | Plug, 10P 2.5MM                     |
| PU01         | 23368634 | Plug, 25P 1.5MM                     |
| PU02         | 23368634 | Plug, 25P 1.5MM                     |
| PV10B        | 23368520 | Plug, 20P 2MM                       |
| PV11B        | 23368520 | Plug, 20P 2MM                       |
| PW01A        | 23902213 | Socket, 10P 2.5MM                   |
| PW02A        | 23902213 | Socket, 10P 2.5MM                   |
| PX01         | 23367724 | Connector, B-B, 15P                 |
| PX01A        | 23902655 | Socket, B-B, 15P                    |
| PX02         | 23368531 | Plug, 12P, 2.5MM                    |
| PX02A        | 23902781 | Socket, 12P, 2.5MM                  |
| S601         | 23145355 | Switch, Slide, 4C-2P                |
| △S801        | 23344416 | Switch, Power                       |
| SA01         | 23145430 | Switch, Push, 1C1P                  |
| SA02         | 23145430 | Switch, Push, 1C1P                  |
| SA03         | 23145430 | Switch, Push, 1C1P                  |
| SA04         | 23145430 | Switch, Push, 1C1P                  |
| SA06         | 23145430 | Switch, Push, 1C1P                  |
| △V901A       | 23903027 | Socket, CRT, 8P                     |
| W661         | 23351143 | Speaker, SPK-1400, 60x120mm, 8 ohm  |
| W662         | 23351143 | Speaker, SPK-1400, 60x120mm, 8 ohm  |
| W663         | 23351143 | Speaker, SPK-1400, 60x120mm, 8 ohm  |
| W664         | 23351143 | Speaker, SPK-1400, 60x120mm, 8 ohm  |
| W665         | 23351080 | Speaker, SPK-1352, 100x100mm, 6 ohm |
| X401         | 23153721 | Ceramic Resonator, 503kHz, TCR1023  |
| X4401        | 23153721 | Ceramic Resonator, 503kHz, TCR1023  |
| X501         | 23153961 | Crystal, 3.58MHz                    |
| X503         | 23153979 | Crystal, 4.43MHz                    |
| XA01         | 23153497 | Crystal, 16.0MHz                    |
| XF01         | 23153421 | Crystal, 20.48MHz                   |
| Z410         | 23110840 | Coil, Focus, TPA6029                |
| Z410B        | 23035308 | Screw, BTB3X8SZN                    |
| △Z420        | 23144539 | Protector, PRF20005491, 125V, 2A    |
| △Z801        | 23904998 | IC, HIC1016                         |
| △Z871        | 23144543 | Protector, PRF50005491, 125V, 5A    |
| △Z890        | 23144543 | Protector, PRF50005491, 125V, 5A    |
| △Z891        | 23144543 | Protector, PRF50005491, 125V, 5A    |
| △Z894        | 23144539 | Protector, PRF20005491, 125V, 2A    |
| △Z896        | 23144539 | Protector, PRF20005491, 125V, 2A    |
| △Z897        | 23144539 | Protector, PRF20005491, 125V, 2A    |

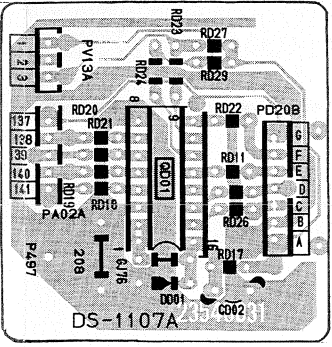
| Location No.               | Part No. | Description                       |
|----------------------------|----------|-----------------------------------|
| △Z898                      | 23144539 | Protector, PRF20005491, 125V, 2A  |
| ZC01                       | 23107626 | Filter, TEM1022                   |
| ZK01                       | 23262661 | Coil, IF, TRF1155D                |
| ZK02                       | 23153325 | Ceramic Resonator, 8.00M, TCR1056 |
| ZX101                      | 23103852 | Coil, Filter, TEM2028AH           |
| ZX141                      | 23103852 | Coil, Filter, TEM2028AH           |
| ZX161                      | 23103852 | Coil, Filter, TEM2028AH           |
| ZX201                      | 23103823 | Filter, TEM2027D                  |
| ZX202                      | 23103823 | Filter, TEM2027D                  |
| ZX321                      | 23103823 | Filter, TEM2027D                  |
| ZX341                      | 23103823 | Filter, TEM2027D                  |
| ZX361                      | 23103823 | Filter, TEM2027D                  |
| ZX401                      | 23303181 | Filter, TEM1012N                  |
| ZX402                      | 23303181 | Filter, TEM1012N                  |
| <b>PC BOARD ASSEMBLIES</b> |          |                                   |
| * U102                     | 23783279 | Back-T Board, PB8836A             |
| * U103                     | 23783278 | VCD Board, PB8768C                |
| * U104A                    | 23783717 | TEXT Board, PB7928B               |
| * U105                     | 23783241 | Digital-SCAN Board, PB8826A       |
| * U106                     | 23783242 | AUTO LIVE Board, PB8827A          |
| * U901                     | 23783290 | CRT Drive Board, PB8813B          |
| * U902C                    | 23783691 | Signal Board, PB8829B-3           |
| * U903                     | 23783274 | Power Board, PB8830B              |
| * U904                     | 23783275 | DEF Board, PB8831B                |
| * U905                     | 23783248 | 100Hz Board, PB8832A              |
| * U906A                    | 23783276 | CONT-1 Board, PB8835A-1           |
| * U906B                    | 23783277 | CONT-2 Board, PB8835A-2           |
| * U907                     | 23783252 | Digital Board, PB8834A            |
| * U908                     | 23783301 | Focus Board, PB8856A              |
| <b>PICTURE TUBE</b>        |          |                                   |
| △V901                      | 23312708 | Picture Tube, W76ESF031X44        |
| <b>TUNER</b>               |          |                                   |
| H001                       | 23321346 | Tuner, UF822BLW1                  |
| <b>ACCESSORIES</b>         |          |                                   |
| K902                       | 23306325 | Remote Hand Unit, CT-90104        |
| AT03                       | 23588265 | Battery Cover                     |
| Y101                       | 23563612 | Owner's Manual, English, 32WD98B  |
| <b>CABINET PARTS</b>       |          |                                   |
| △A004                      | 23003130 | Back Cover                        |
| A201                       | 23549009 | Front Cover                       |
| A214                       | 23035412 | Screw, BTB4X12SZN                 |
| A215                       | 23035412 | Screw, BTB4X12SZN                 |
| A231                       | 23445268 | Button, Power                     |
| A241                       | 70368125 | Push Catch for Door               |
| A242                       | 23427666 | Door Right                        |
| A243                       | 23427667 | Door Left                         |
| A403                       | 23796410 | Woofer Box                        |
| A411                       | 23550534 | Label, Model No.                  |
| A501                       | 23030187 | Screw, CRT5X30                    |
| A702                       | 23935893 | Packing, Bottom                   |
| A703                       | 23935894 | Packing, Top                      |



# SIGNAL BOARD PB8829B-1 BOTTOM (FOIL) SIDE

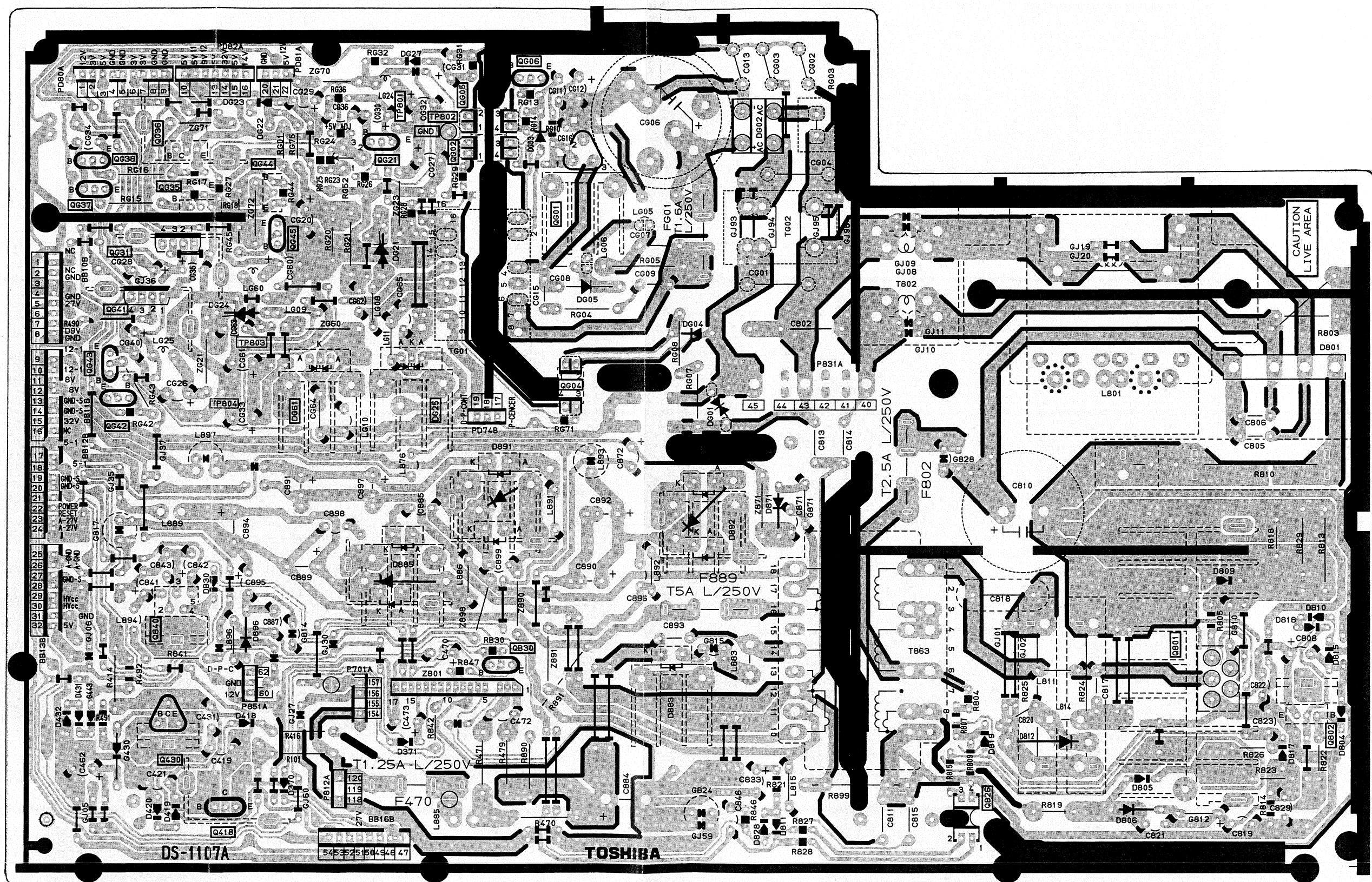


## EXPANDER BOARD PB8829B-2 BOTTOM (FOIL) SIDE



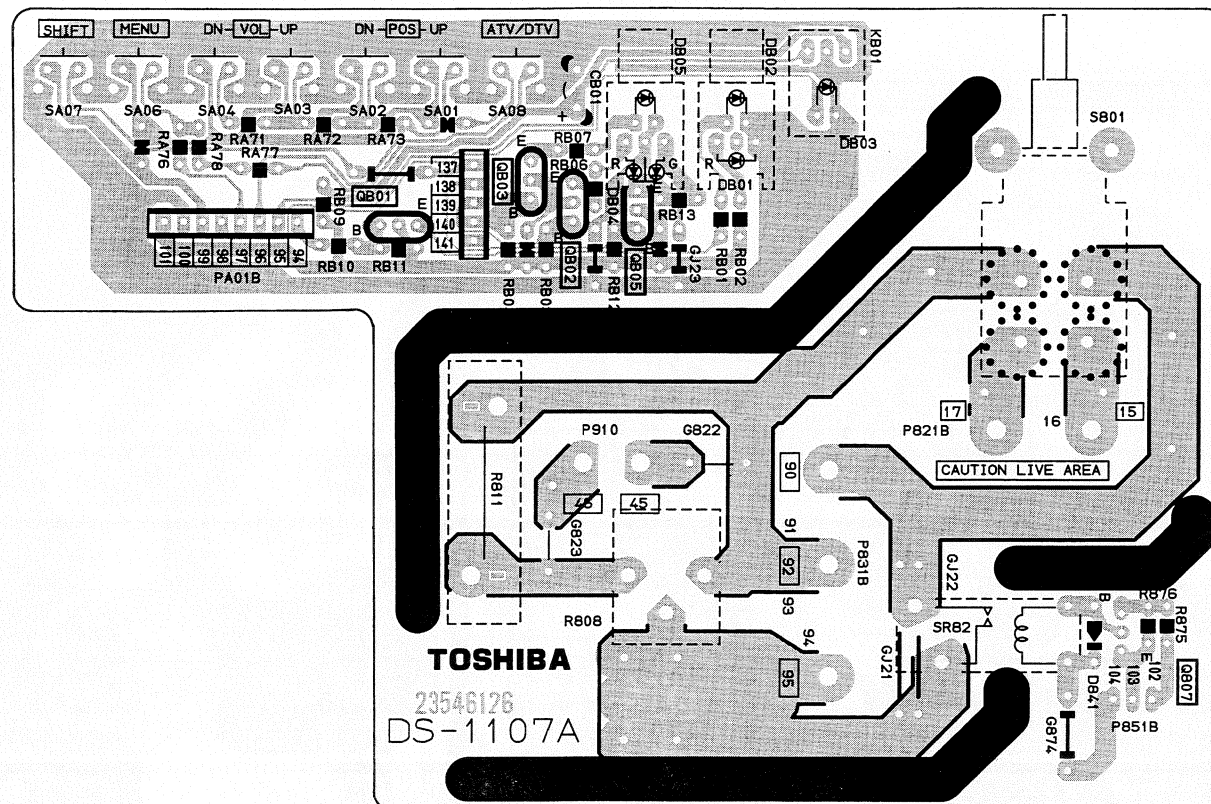


POWER BOARD PB8830B  
BOTTOM (FOIL) SIDE

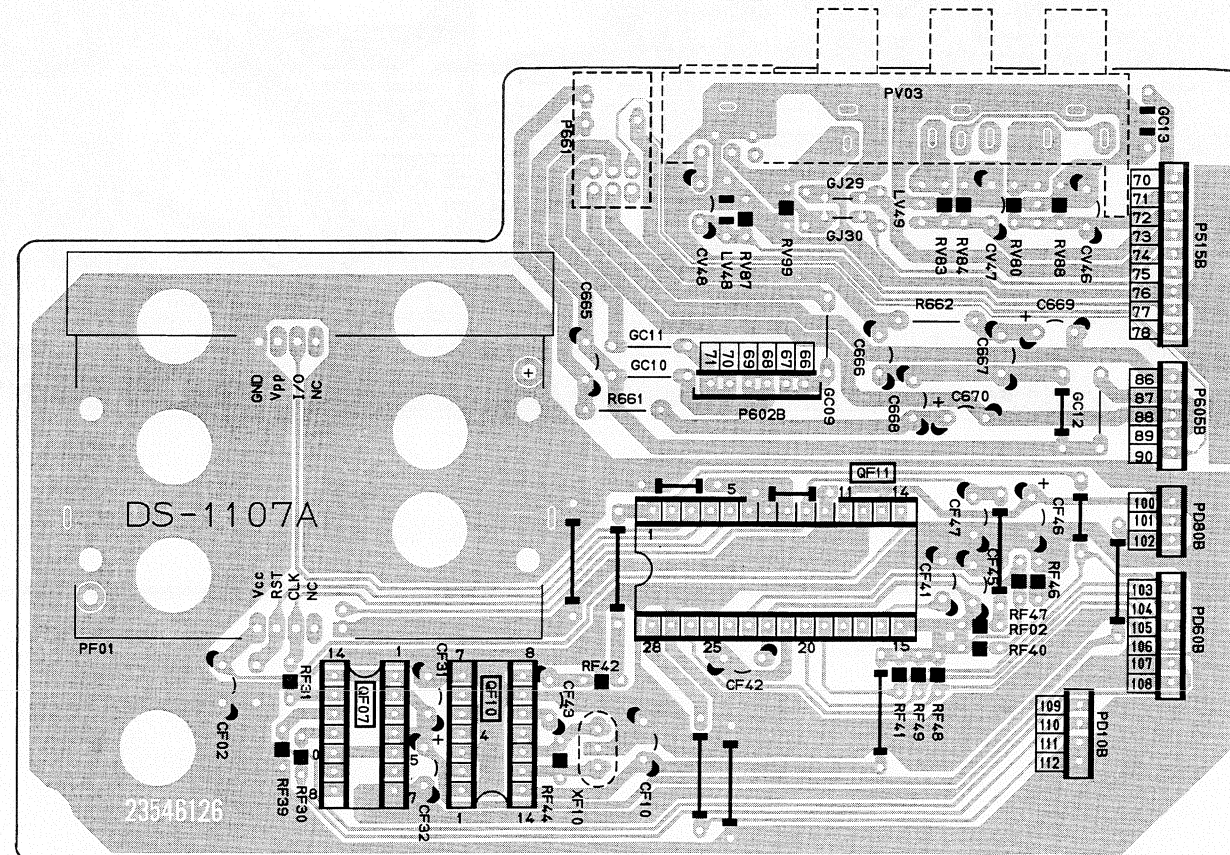




**CONT-1 BOARD PB8835A-1**  
BOTTOM (FOIL) SIDE



**CONT-2 BOARD PB8835A-2**  
BOTTOM (FOIL) SIDE

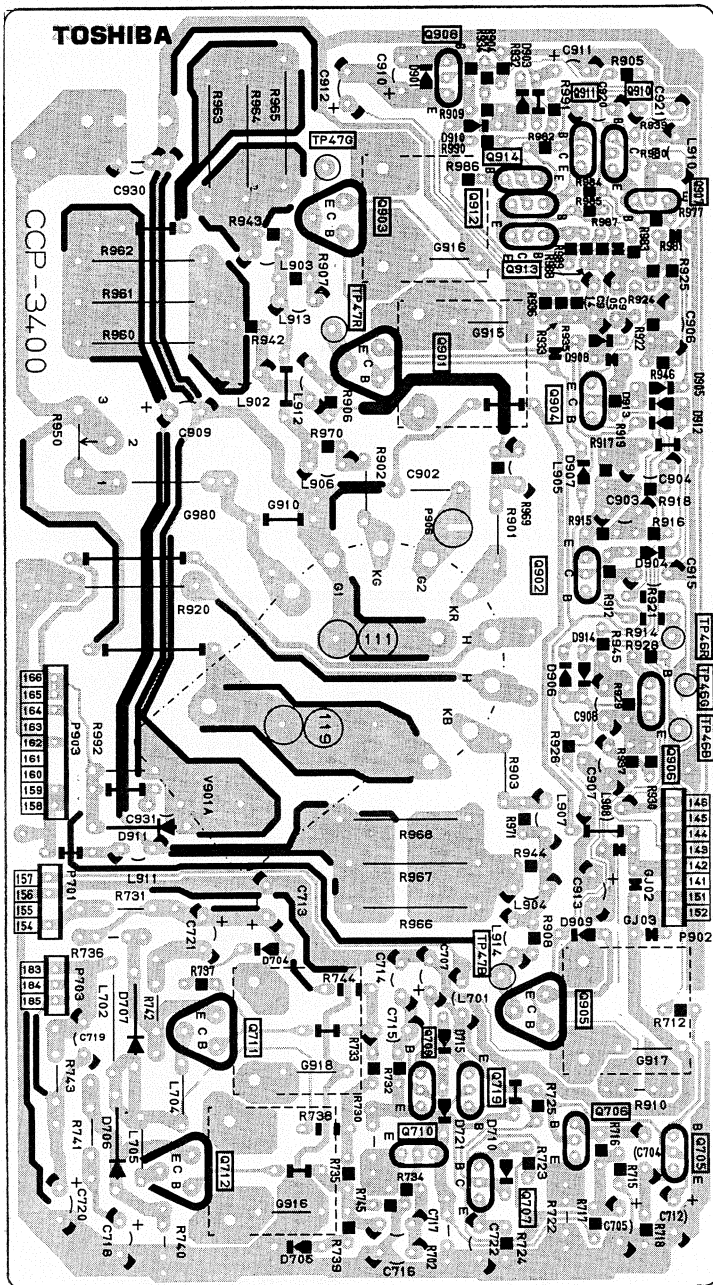




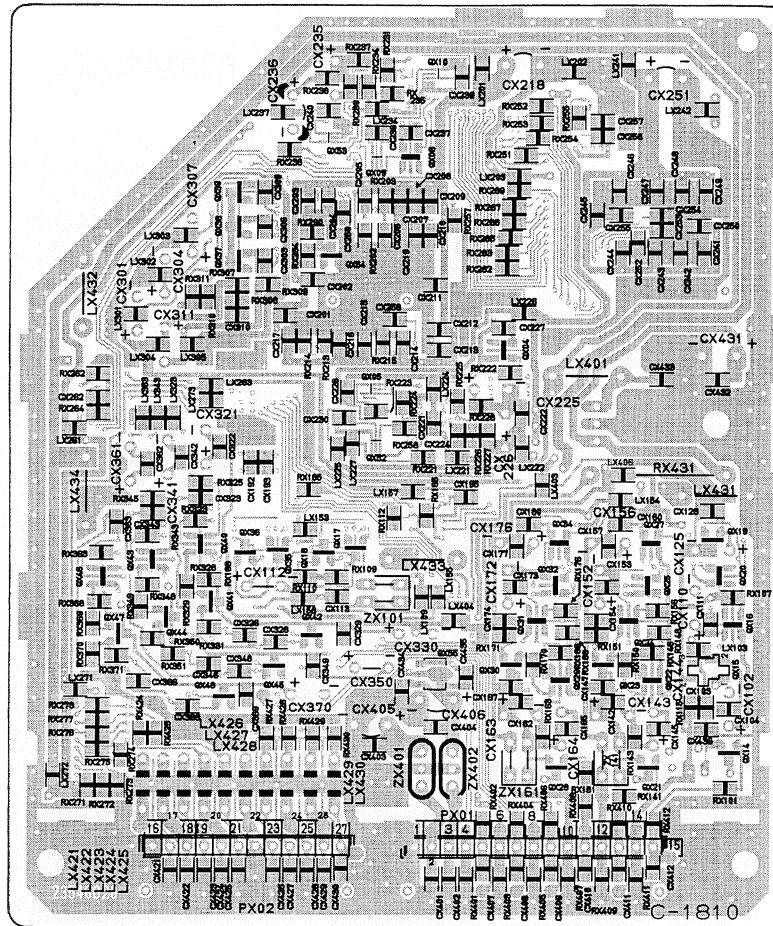




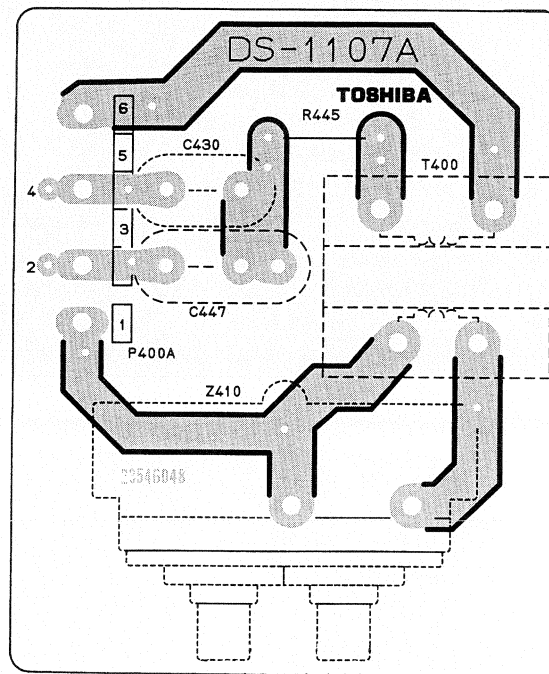
**BOTTOM (FOIL) SIDE**



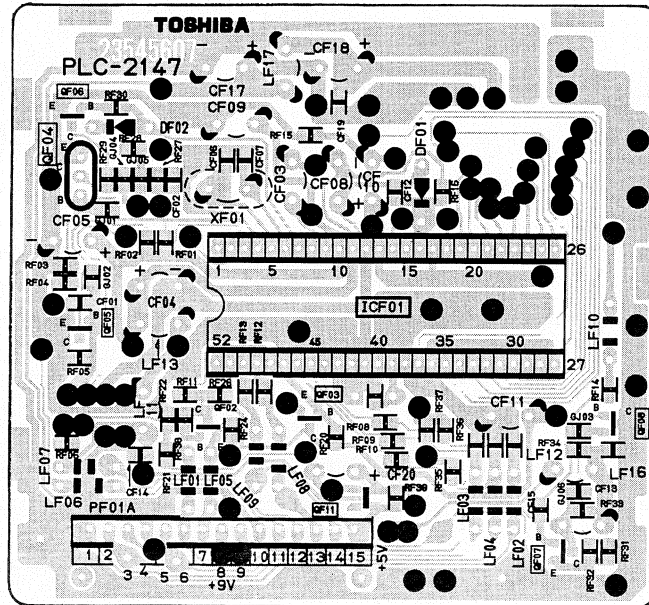
# **D-SCAN BOARD PB8826A** **BOTTOM (FOIL) SIDE**



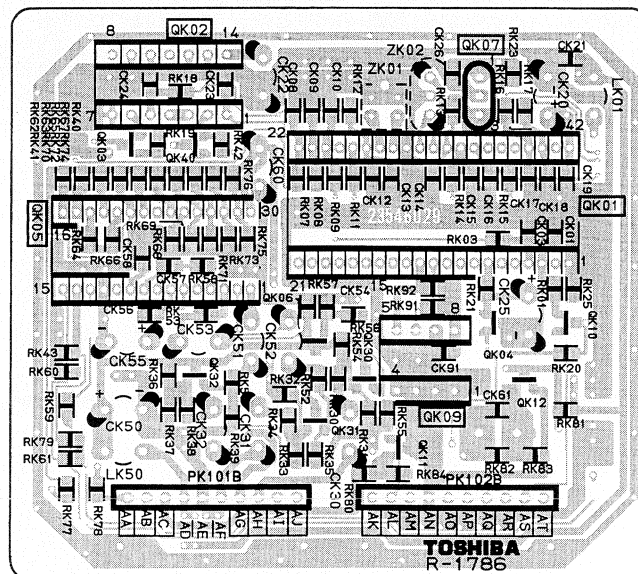
# **FOCUS BOARD PB8856A** **BOTTOM (FOIL) SIDE**



# TEXT BOARD PB7928B BOTTOM (FOIL) SIDE

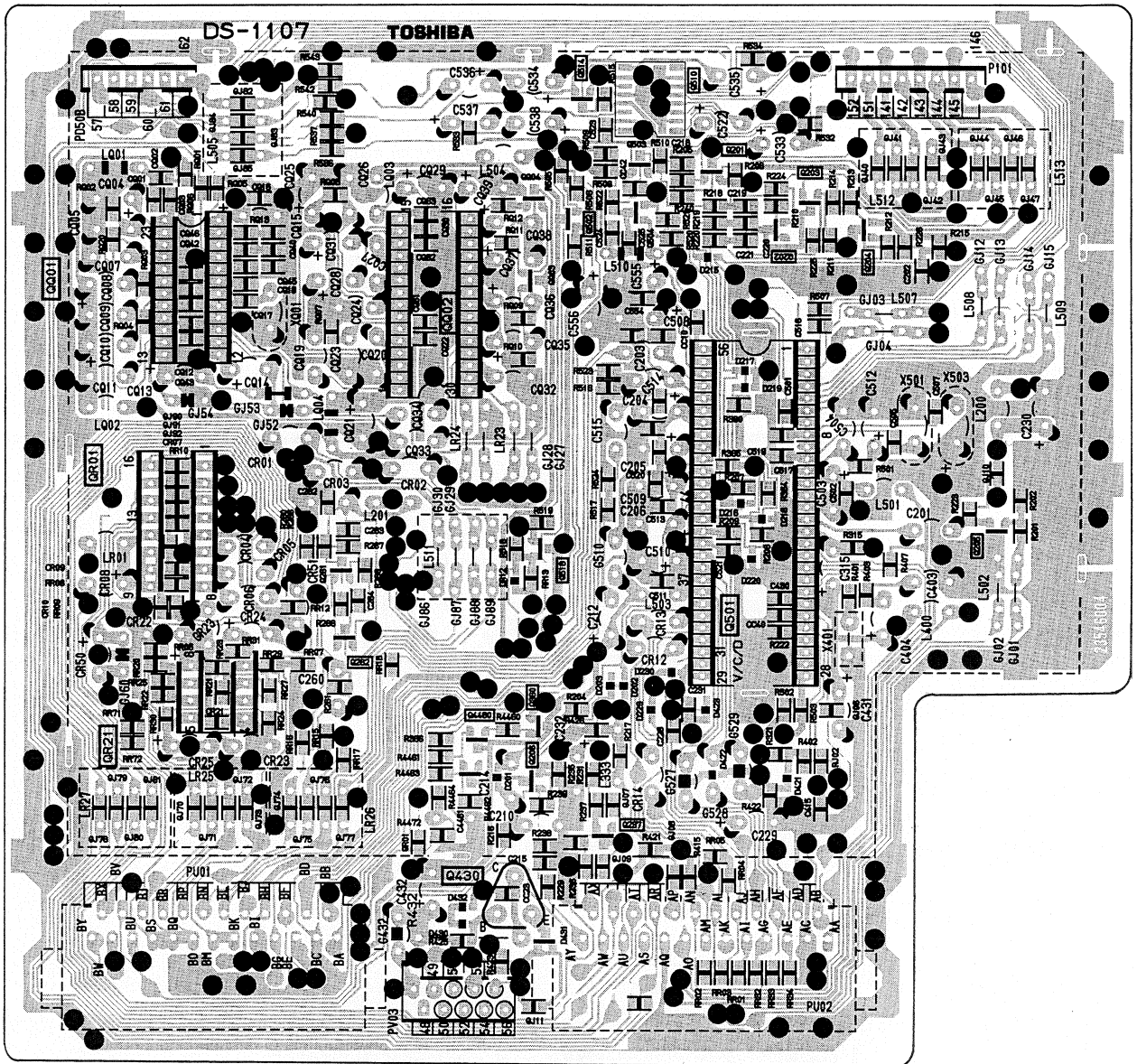


# AUTO LIVE BOARD PB8827A BOTTOM (FOIL) SIDE

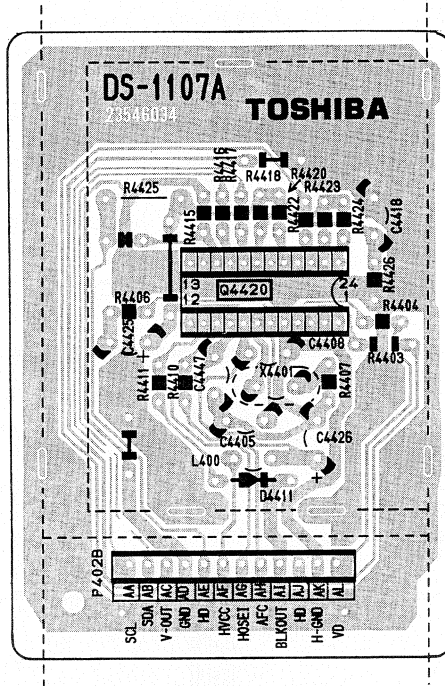


# VCD BOARD PB8768C

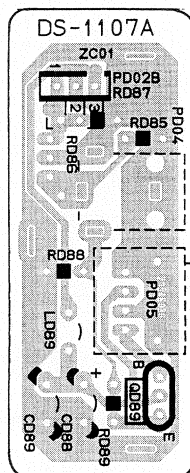
## BOTTOM (FOIL) SIDE



**100Hz BOARD PB8832A**  
**BOTTOM (FOIL) SIDE**



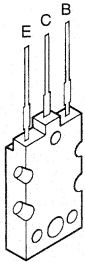
**DIGITAL BOARD PB8834A**  
**BOTTOM (FOIL) SIDE**



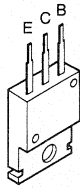


# TERMINAL VIEW OF TRANSISTORS

- ① 2SD2253  
(old)  
2SC5243  
2SC5570



- ② 2SC3852  
2SD1763A  
2SC1569  
2SC4544  
2SA1788  
2SA1306  
2SA1186A



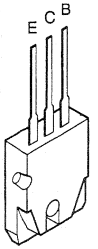
- ③ 2SC752GTM  
2SC2482  
2SC2655  
2SC4721P



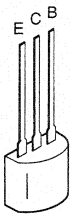
- ④ 2SC752  
2SA562TM  
2SA1015  
2SC1815  
2SC2878  
2SC1740S  
2SC2120  
2SA9335



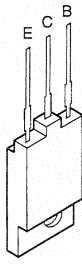
- ⑤ 2SA1788



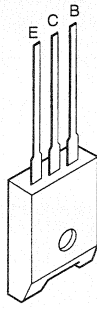
- ⑥ RN2203  
RN2201  
RN2004  
RN1203  
RN1204  
RN2204  
RN1205  
RN1202  
RN1201



- ⑦ 2SD1554  
2SD2253  
2SD1556  
2SC5143  
2SD2553



- ⑧ ON4409



**SCHEMATIC DIAGRAM      MODEL : 32WD98B      (1/6)**

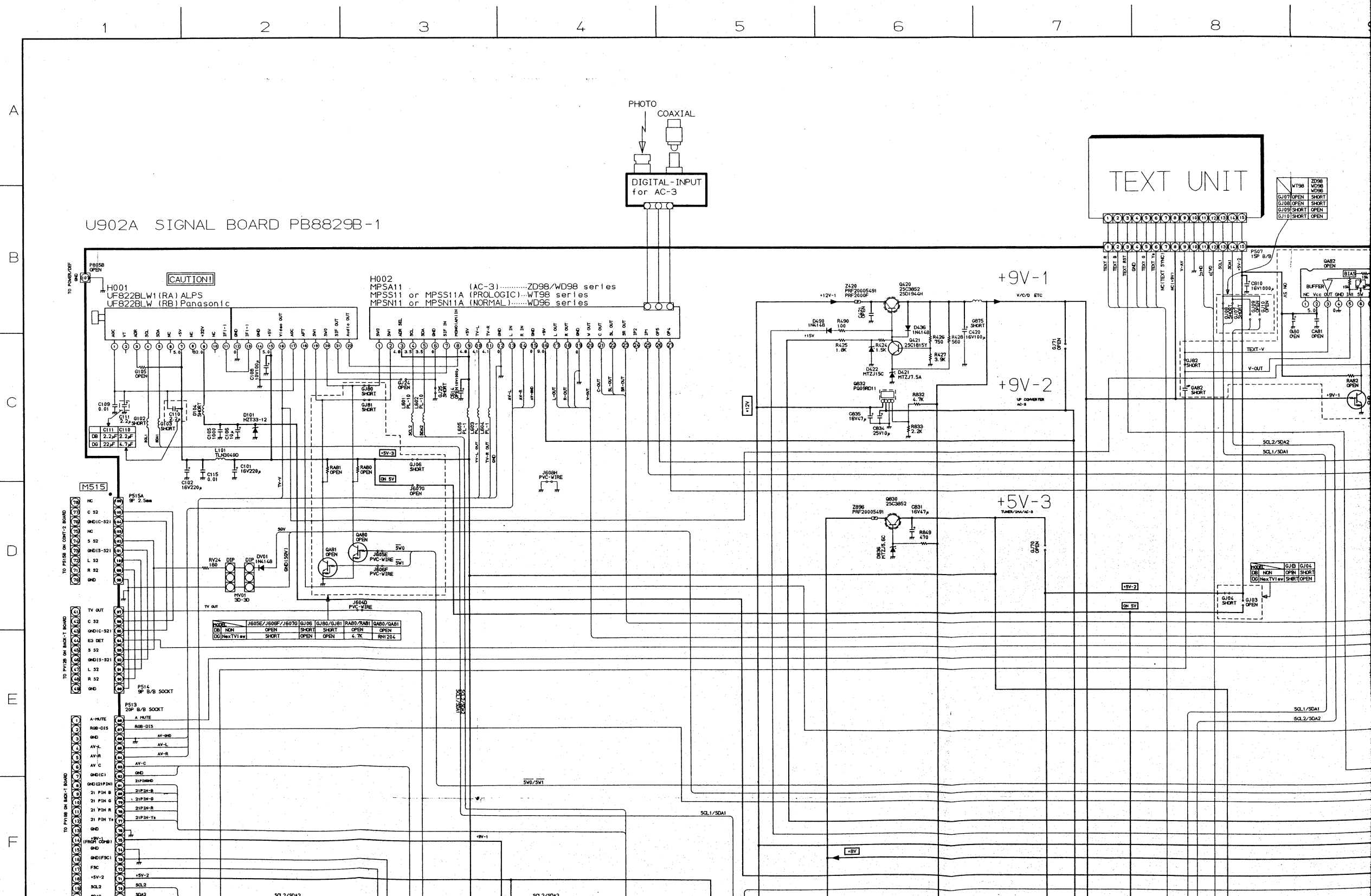
**CAUTION:** The international hazard symbols “⚠” in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

## OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts; colour bar signal. Voltages reading may vary  $\pm 20\%$ .
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

**NOTES:**

1. D.C. resistance value of a principal program. These are measured for separate circuits.
2. The circuits are subject to change.
3.  : Solder links.





# OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts; colour bar signal. Voltages reading may vary  $\pm 20\%$ .
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

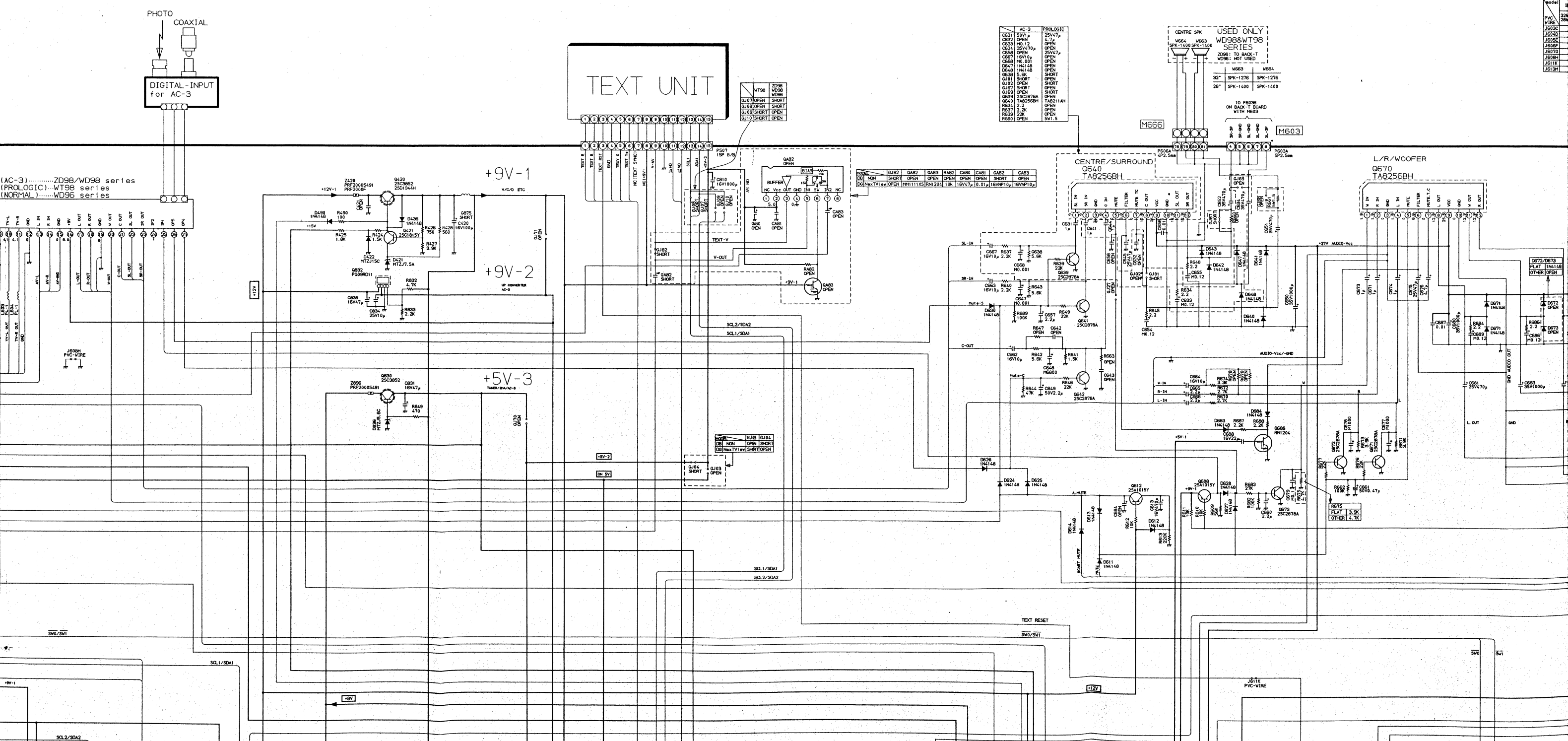
# NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3.  $\bullet$  : Solder links.

# EXPRESSION

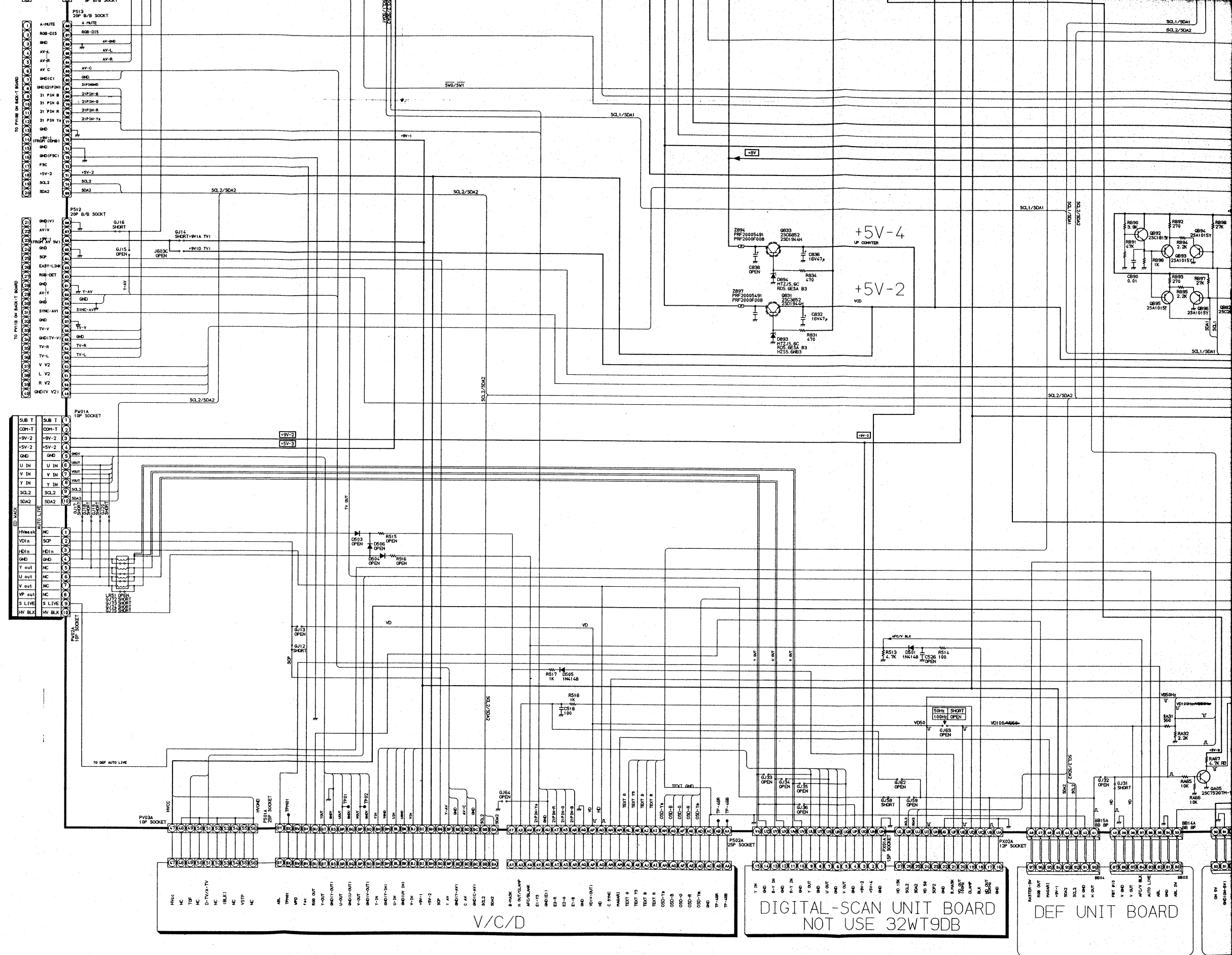
# VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than  $\mu F$  and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than  $\mu H$ , and the values less than 1 in H.



### VALUE OF RESISTOR, CAPACITOR and INDUCTOR

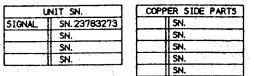
- al transformer is shown in this schematic diagram. The transformer is derived from the circuit. without notice.

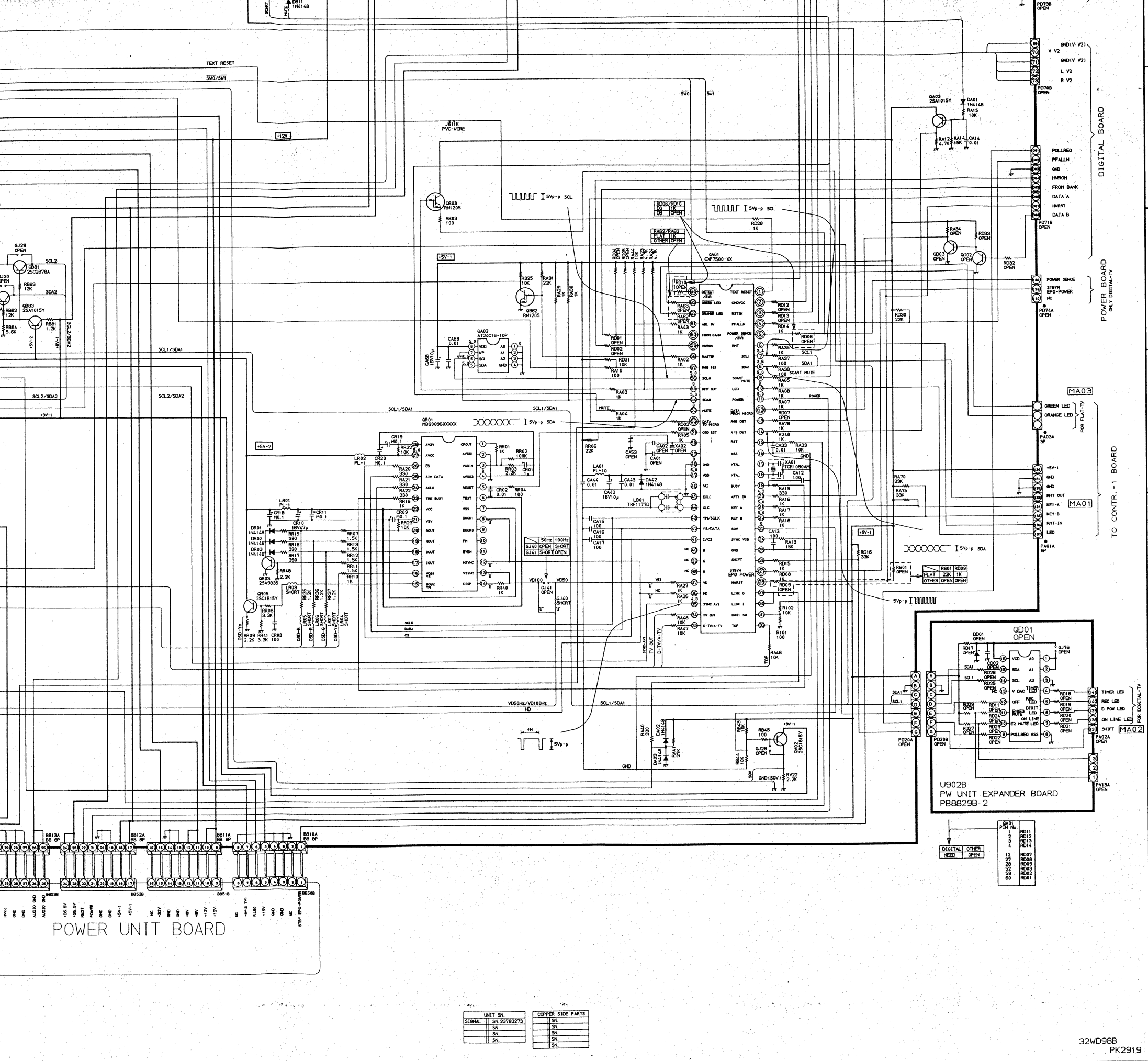


DIGITAL-SCAN UNIT BOARD  
NOT USE 32WT9DB

DEF UNIT BOARD

V/C/D







**SCHEMATIC DIAGRAM      MODEL : 32WD98B      (2/6)**

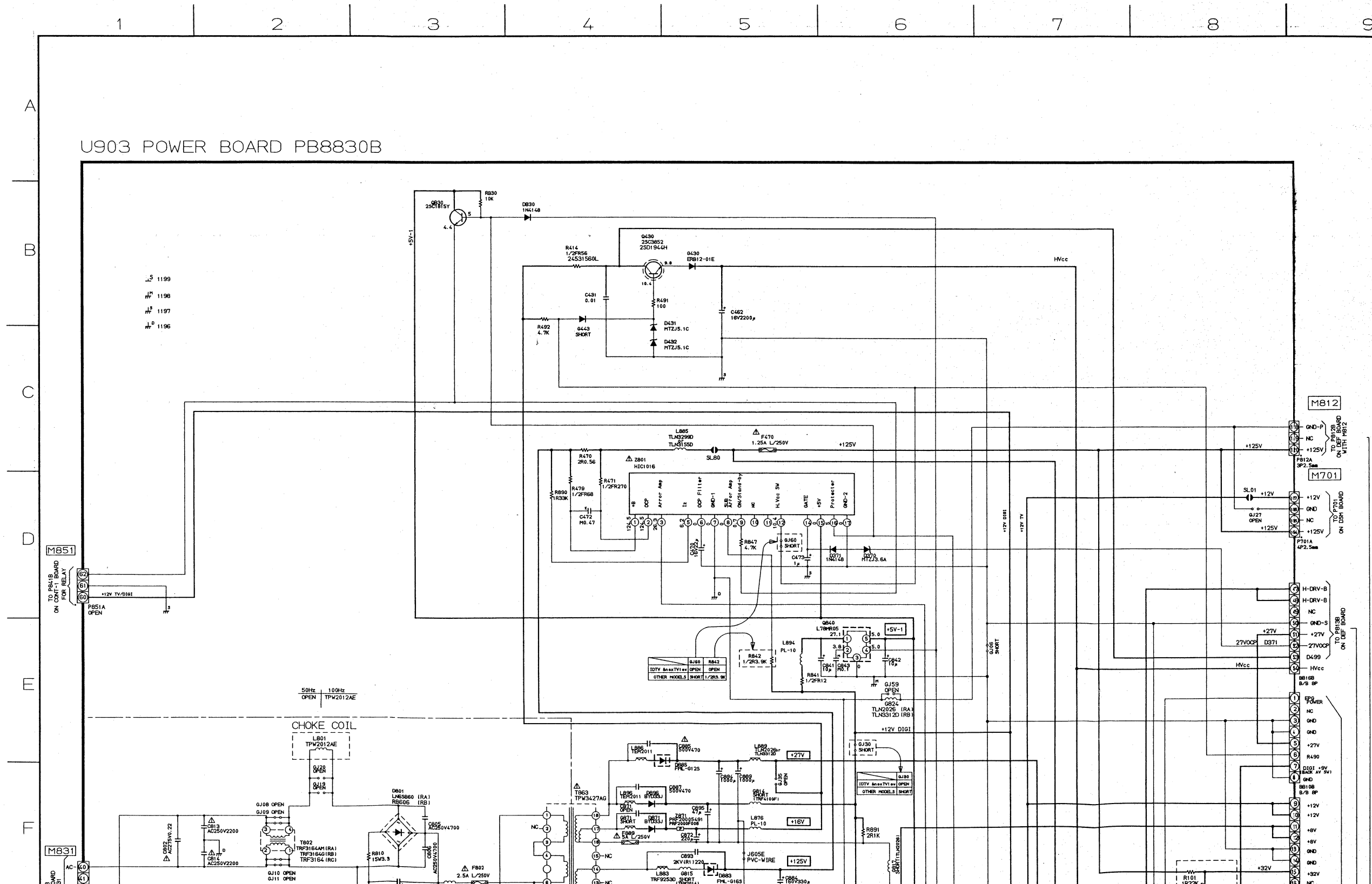
**CAUTION:** The international hazard symbols “⚠” in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

## OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary  $\pm 20\%$ .
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

**NOTES:**

1. D.C. resistance value of a principal gram. These are measured for separate
2. The circuits are subject to change with
3.  : Solder links.



# ATION OF VOLTAGES AND WAVEFORMS

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 colour bar signal. Voltages reading may vary  $\pm 20\%$ .  
 eforms are taken using a wide band oscilloscope and a low capacity probe.  
 orms are taken using a standard colour bar signal.  
 sure that CONTRAST and COLOUR controls are in mid position and  
 TNESS control is almost in maximum position. Set other controls for best

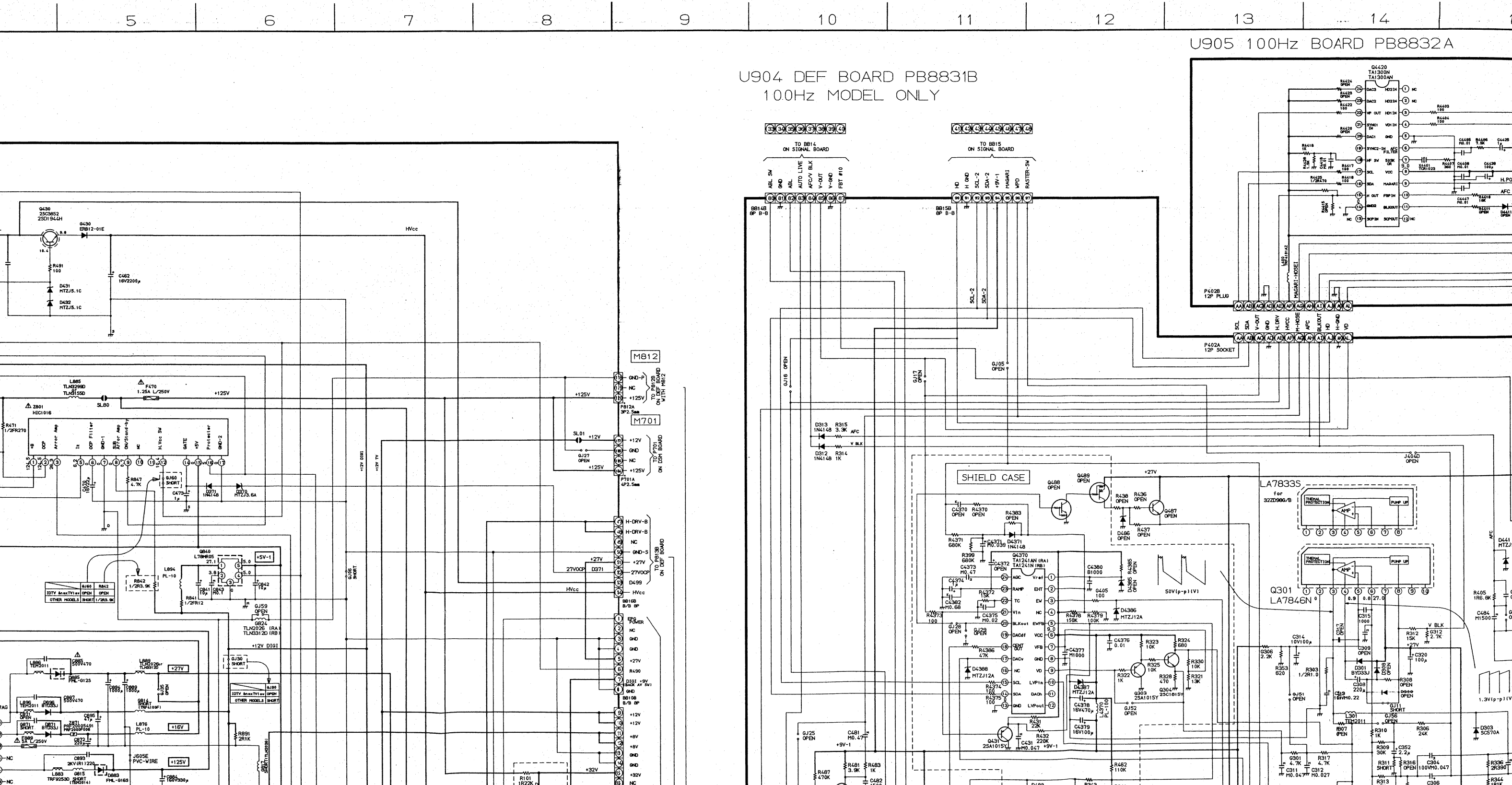
## NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3.  $\bullet$  : Solder links.

## EXPRESSION

## VALUE OF RESISTOR, CAPACITOR and INDUCTOR

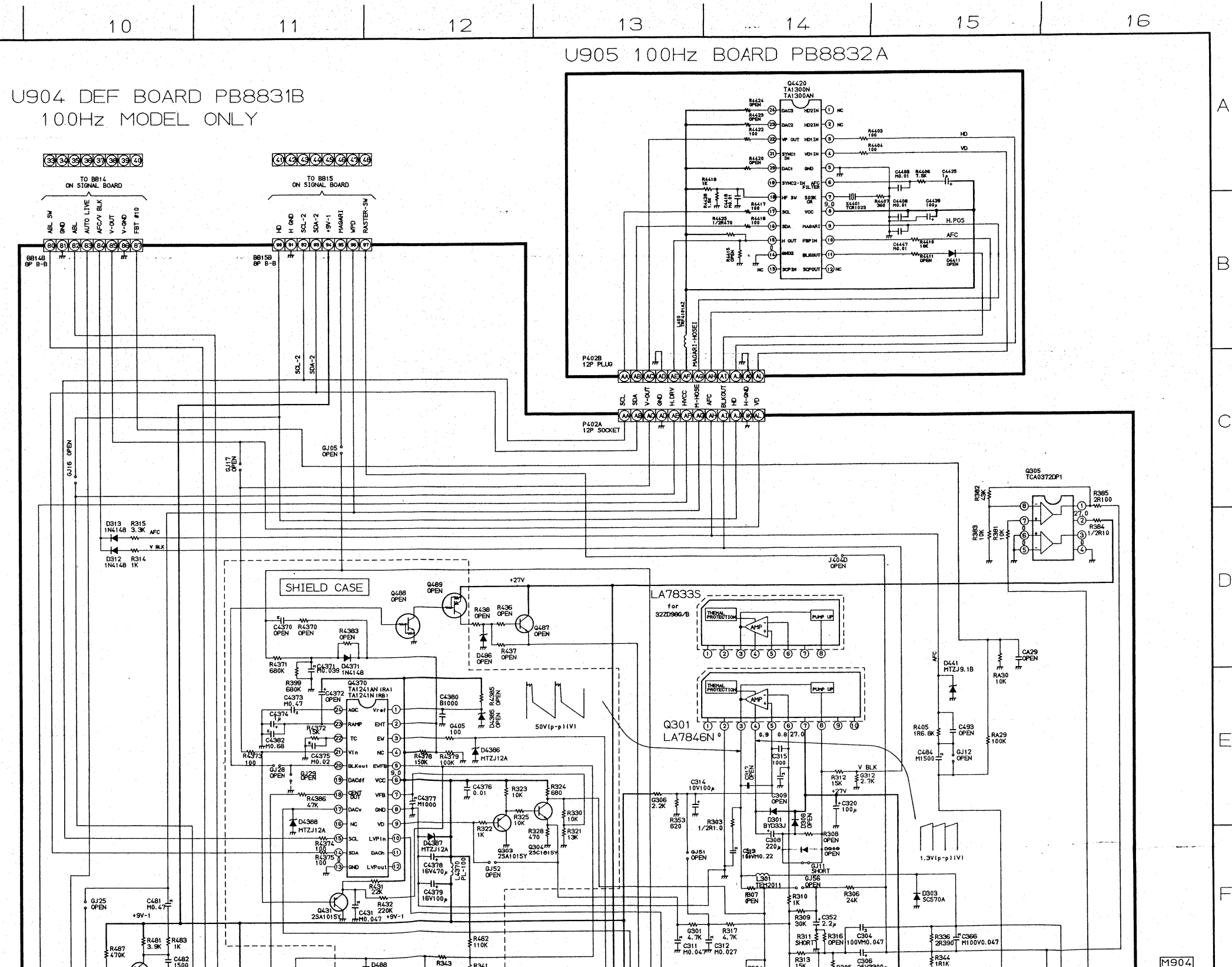
1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in  $\mu F$  and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in  $\mu H$ , and the values less than 1 in H.

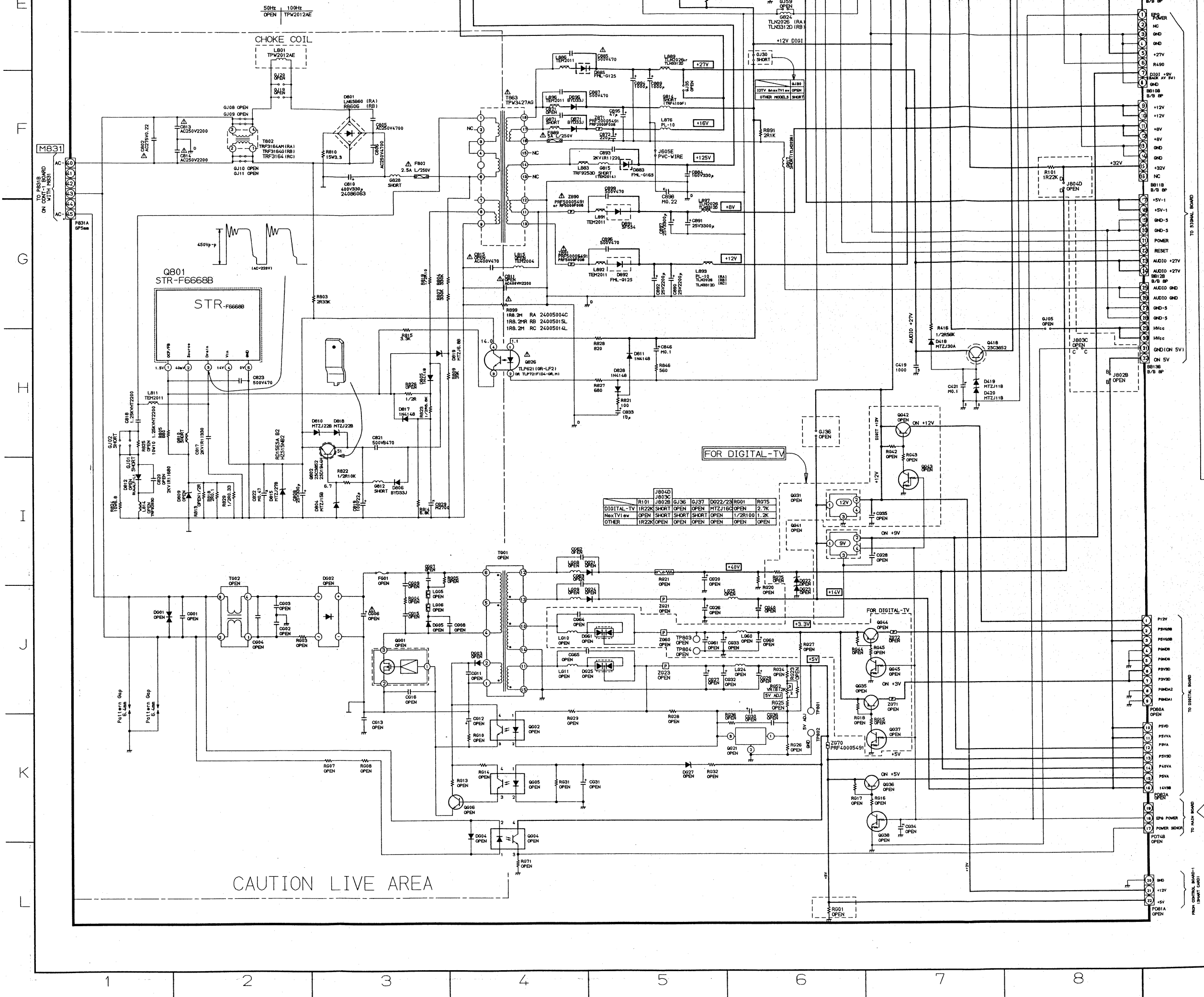


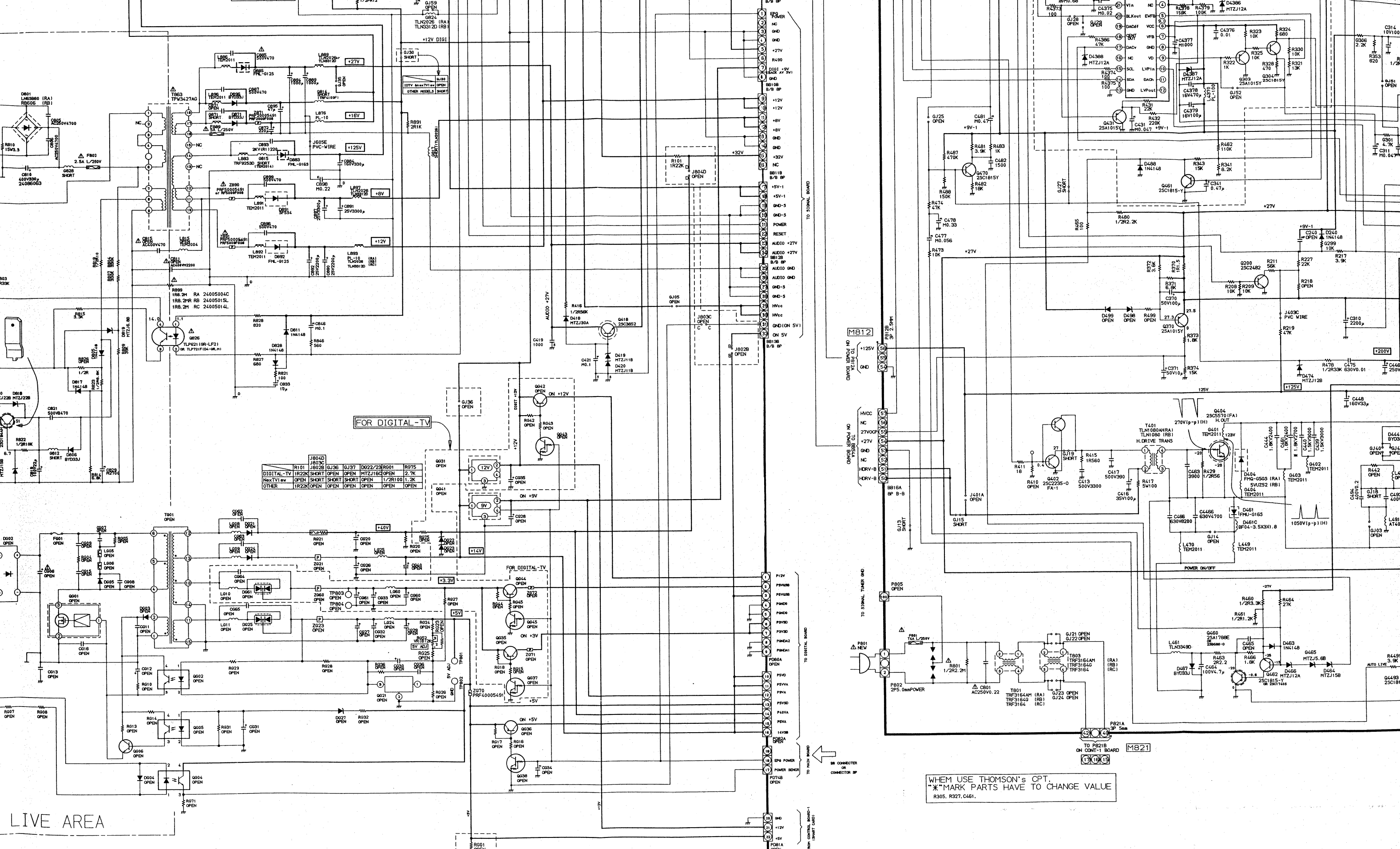


### VALUE OF RESISTOR, CAPACITOR and INDUCTOR

- transformer is shown in this schematic diagram derived from the circuit.
- Without notice.







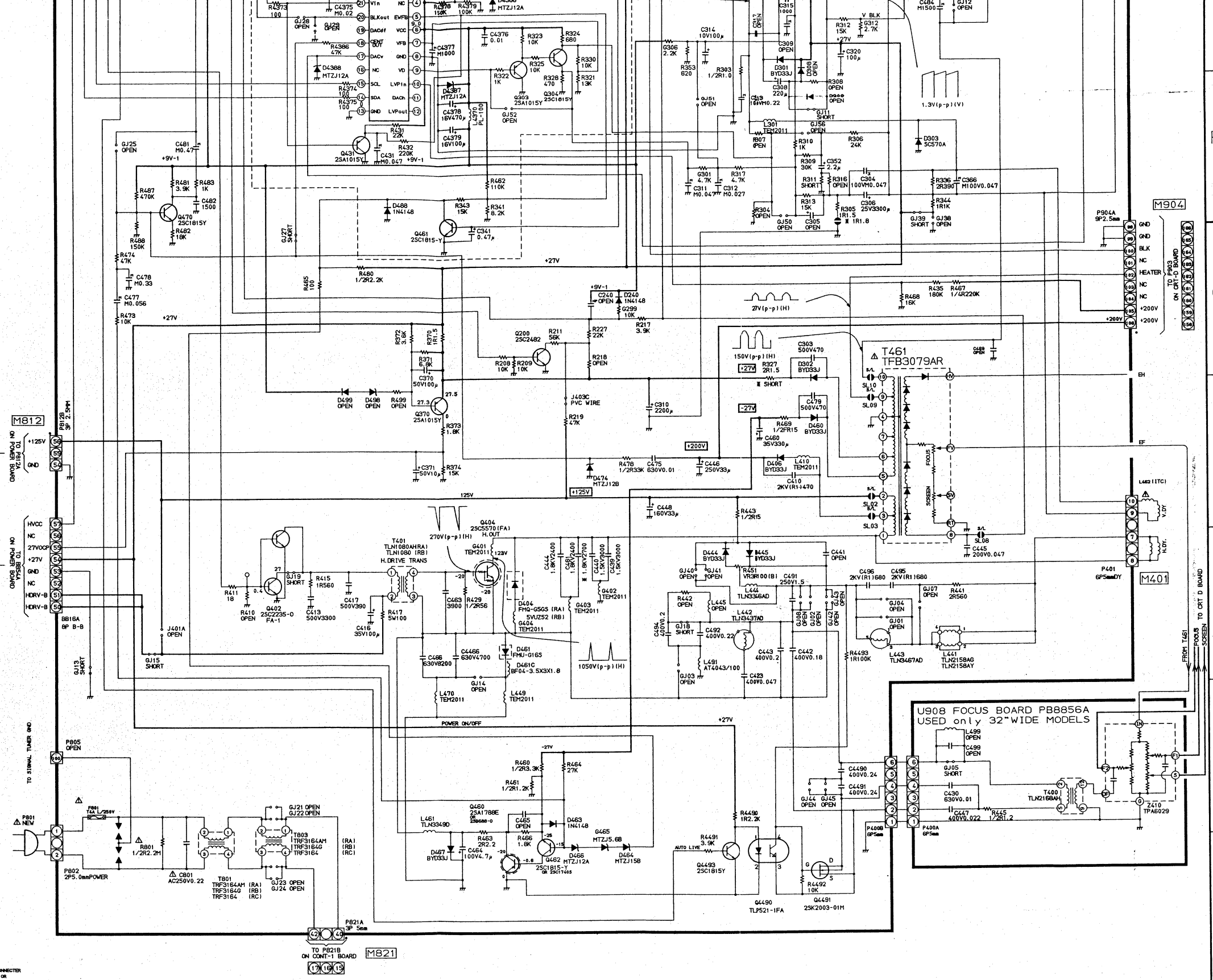
FOR DIGITAL-TV

|            |       |       |       |         |         |              |
|------------|-------|-------|-------|---------|---------|--------------|
| J804D      | J802B | GJ36  | GJ37  | DG22/23 | R001    | R075         |
| DIGITAL-TV | 1R22K | SHORT | OPEN  | OPEN    | MTZJ16C | OPEN 2.7K    |
| NextTVI    | ew    | OPEN  | SHORT | SHORT   | OPEN    | 1/2R100 1.2K |
| OTHER      | 1R22K | OPEN  | OPEN  | OPEN    | OPEN    | OPEN         |

WHEN USE THOMSON'S CPT.  
\*\*MARK PARTS HAVE TO CHANGE VALUE  
R305, R327, C461.

NOTE  
The marking (OPEN) means that there are on component on the PCB though there are the marking of part No. on the PCB. It means open circuited.

| UNIT SN. |             | COPPER SIDE PARTS |     |
|----------|-------------|-------------------|-----|
| POWER    | SN 23783274 |                   | SN. |
| DEF      | SN 23783275 |                   | SN. |
| 100Hz    | SN 23783248 |                   | SN. |
| FOCUS    | SN 23783301 |                   | SN. |



WHEN USE THOMSON'S CPT.  
\*\*MARK PARTS HAVE TO CHANGE VALUE  
R305, R327, C461.

NOTE  
The marking [OPEN] means that there are no component on the PCB though there are the marking of part No. on the PCB. Its means open circuited.

| UNIT SN. |             | COPPER SIDE PARTS |     |
|----------|-------------|-------------------|-----|
| POWER    | SN 23783274 |                   | SN. |
| DEF      | SN 23783275 |                   | SN. |
| 100Hz    | SN 23783248 |                   | SN. |
| FOCUS    | SN 23783301 |                   | SN. |

32WD98B  
PK2925

# SCHEMATIC DIAGRAM MODEL : 32WD98B (3/6)

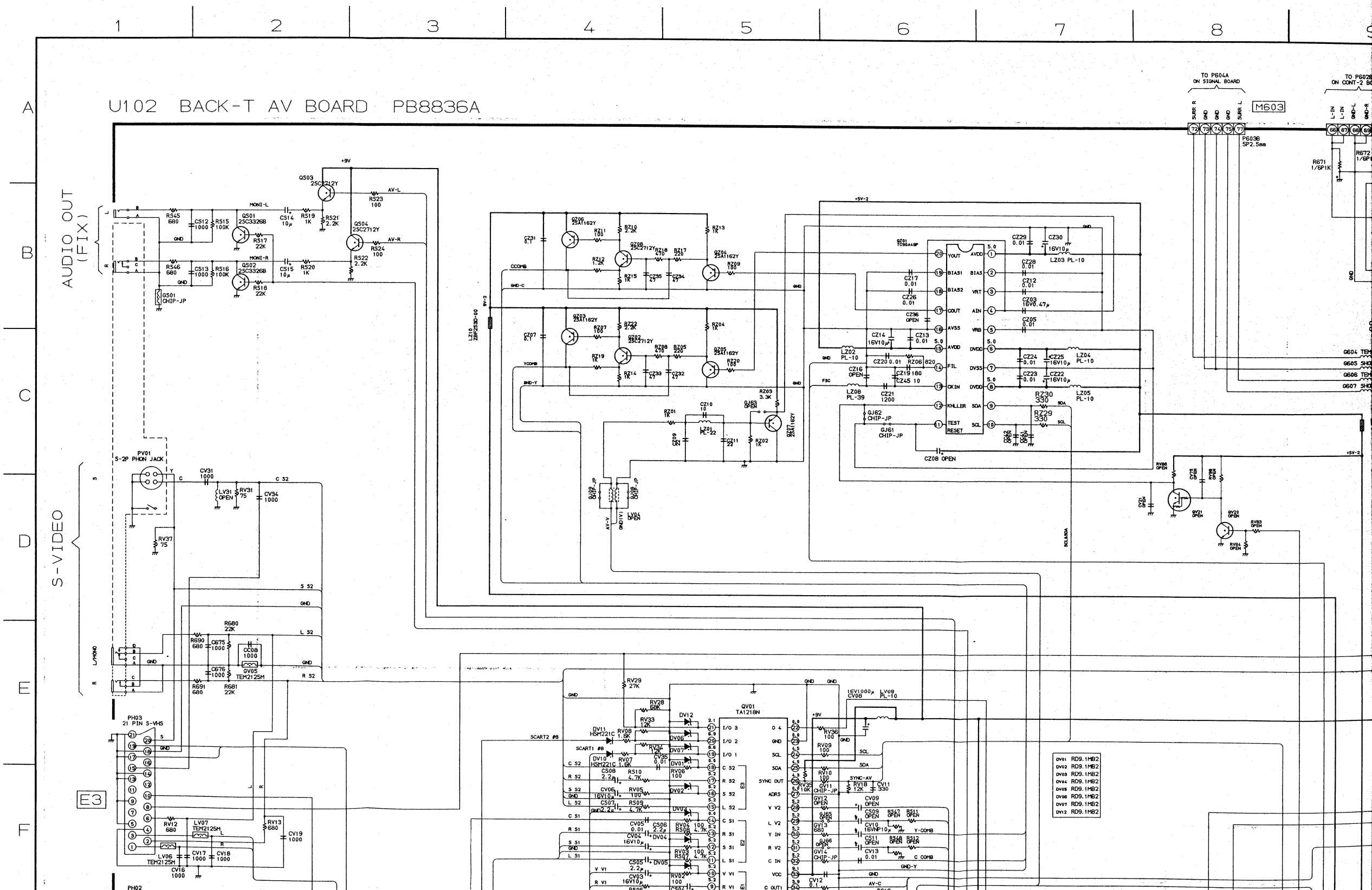
**CAUTION:** The international hazard symbols "A" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

## OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary  $\pm 20\%$ .
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

## NOTES:

1. D.C. resistance value of a principal component. These are measured for separate components.
2. The circuits are subject to change without notice.
3.  $\bullet$  : Solder links.





## OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary  $\pm 20\%$ .
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

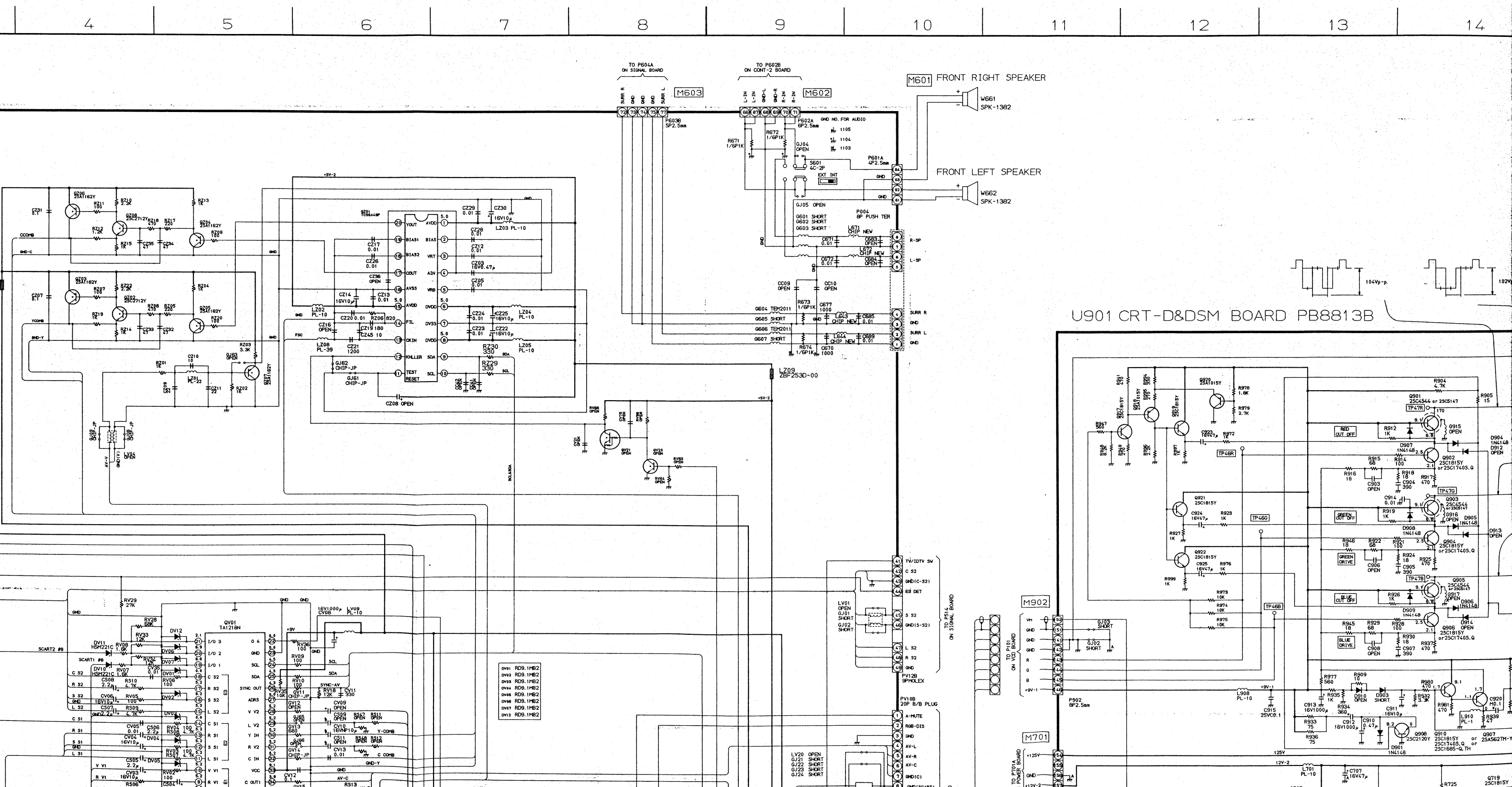
## NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3.  $\bullet$  : Solder links.

## EXPRESSION

### VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are in  $\mu\text{F}$  and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are in  $\mu\text{H}$ , and the values less than 1 in H.



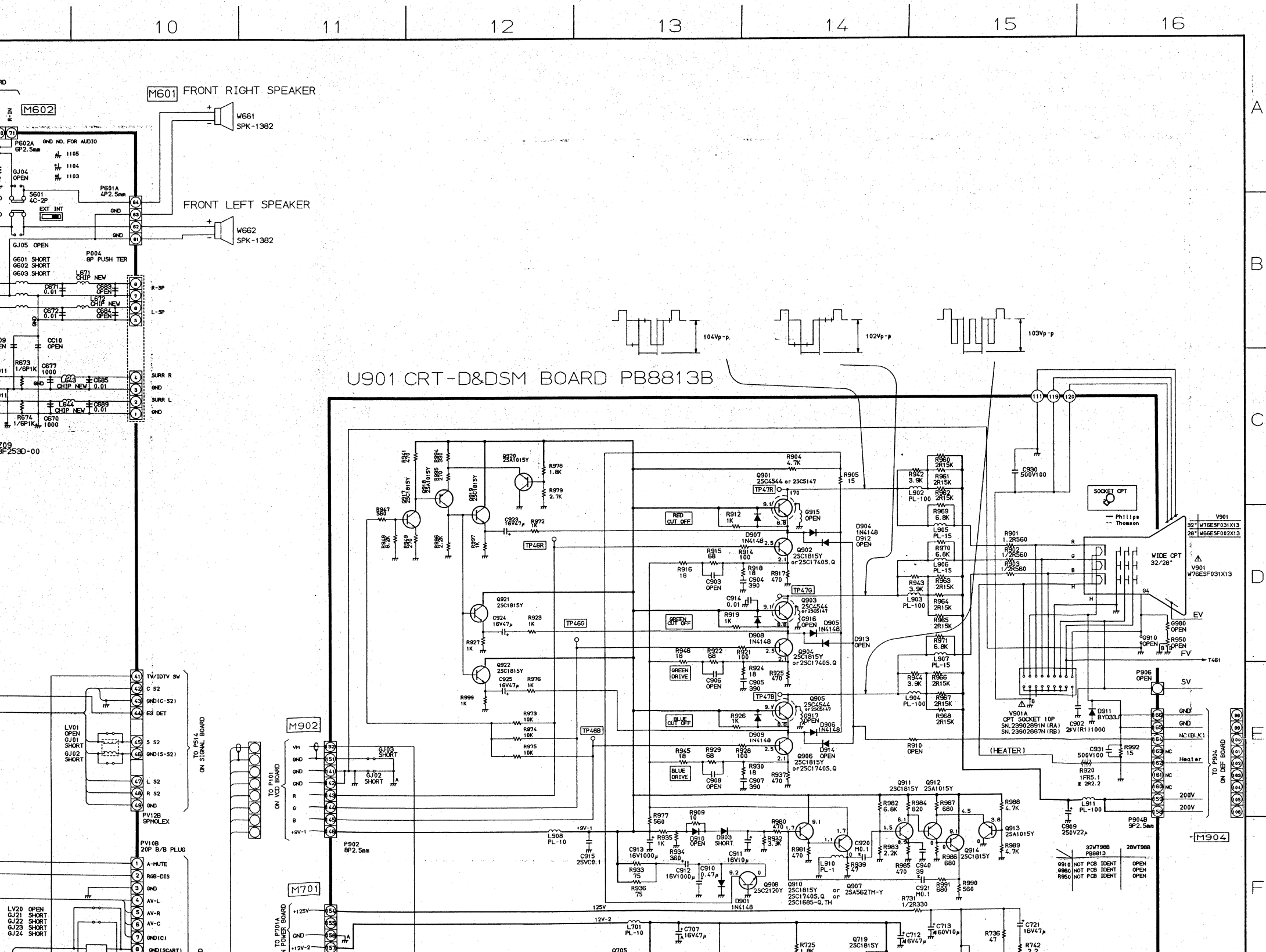


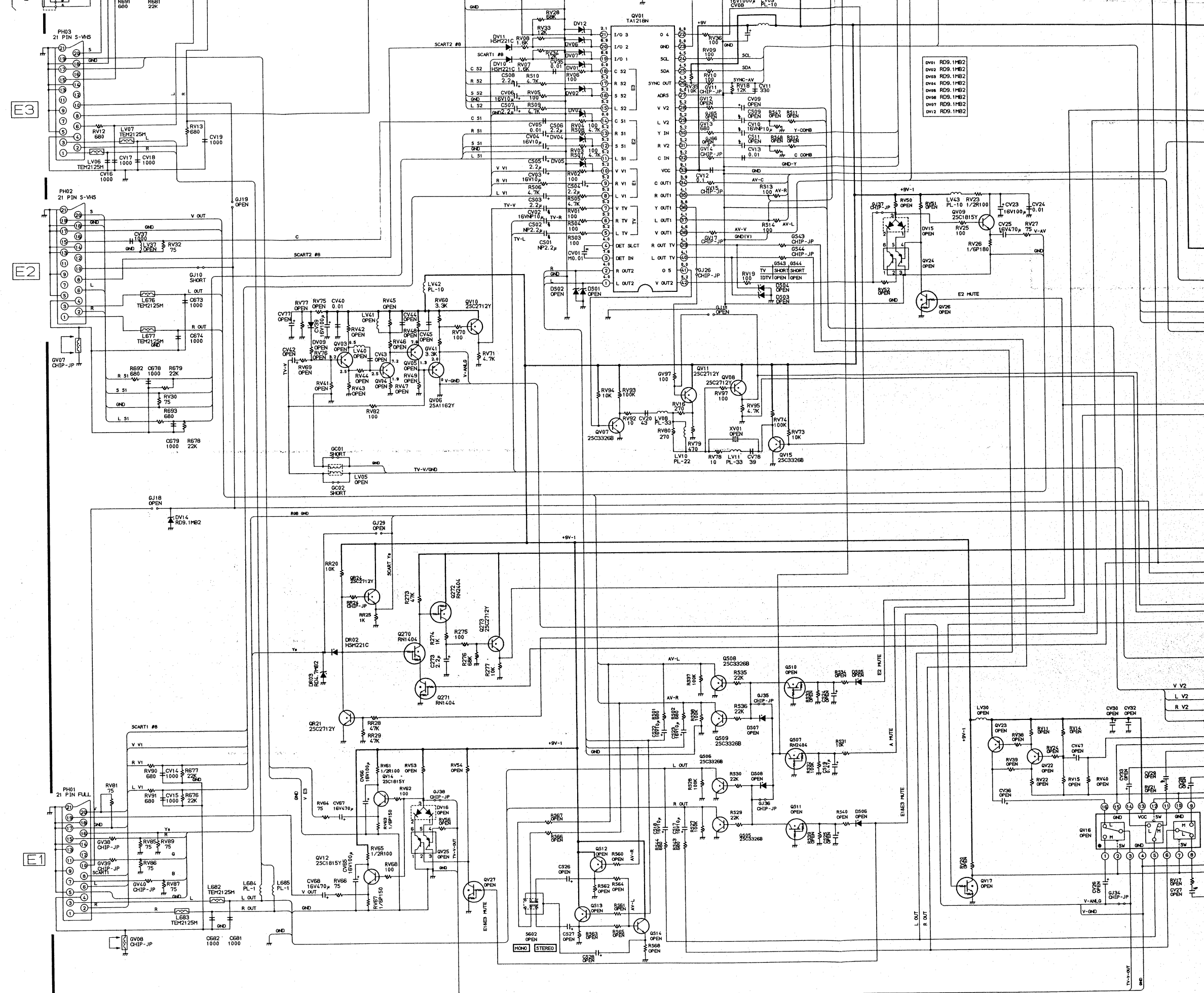
## EXPRESSION

### VALUE OF RESISTOR, CAPACITOR and INDUCTOR

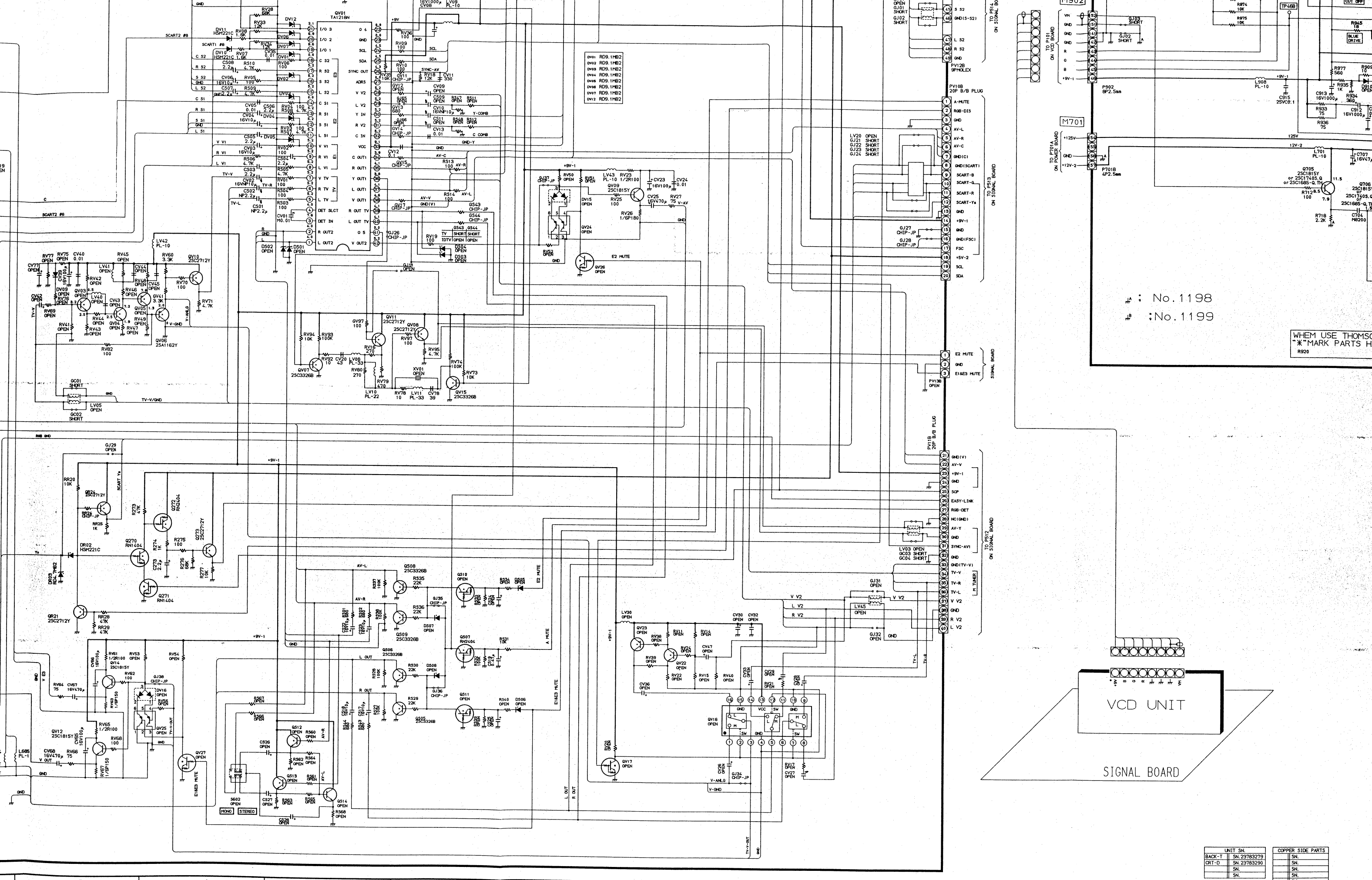
1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in  $\mu F$  and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in  $\mu H$ , and the values less than 1 in H.

al transformer is shown in this schematic diagram. The transformer is shown in this schematic diagram. The transformer is shown in this schematic diagram.





DRC=OK



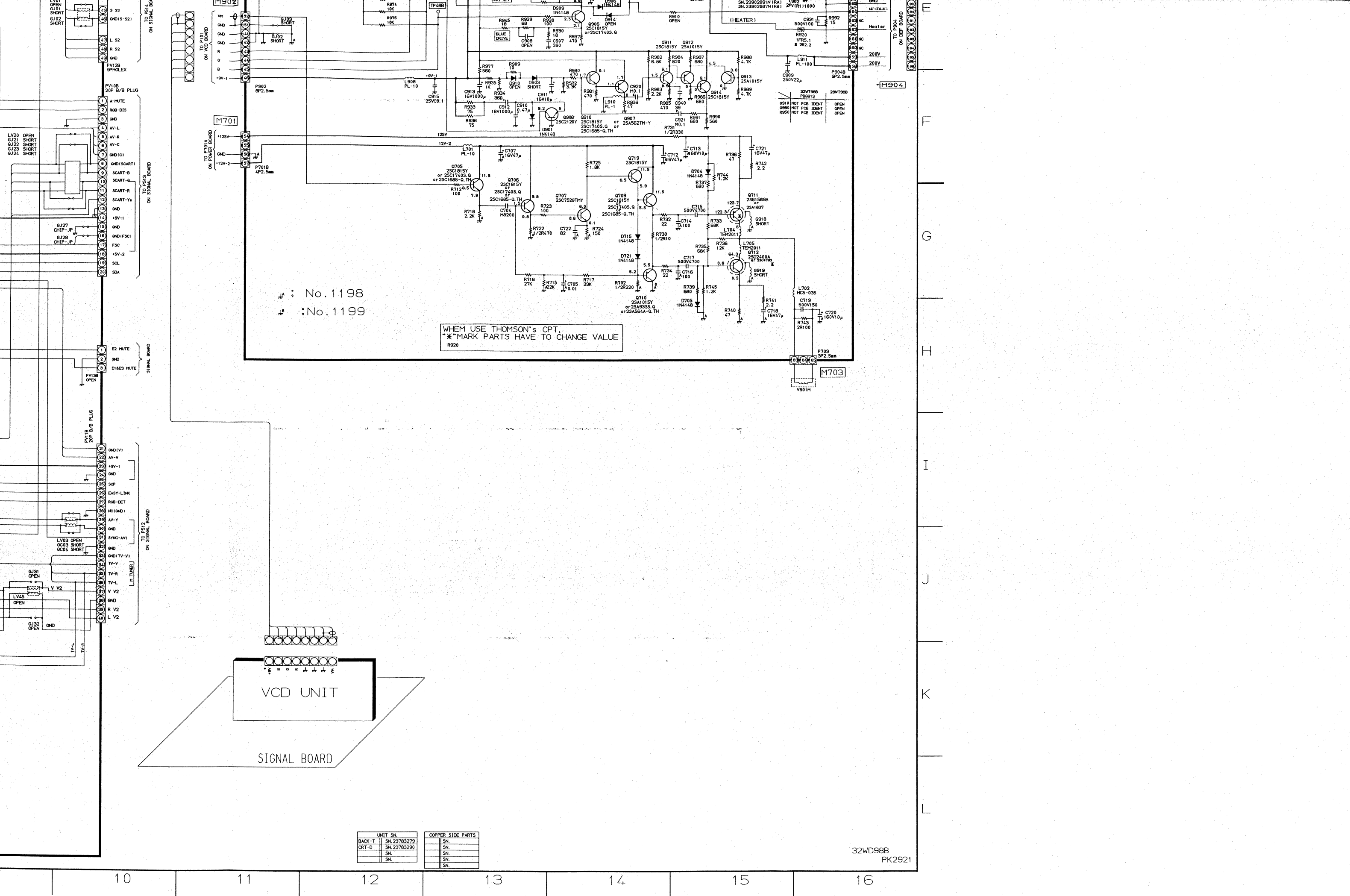
No. 1198  
No. 1199

WHEN USE THOMSON  
\* MARK PARTS H  
R920

VCD UNIT

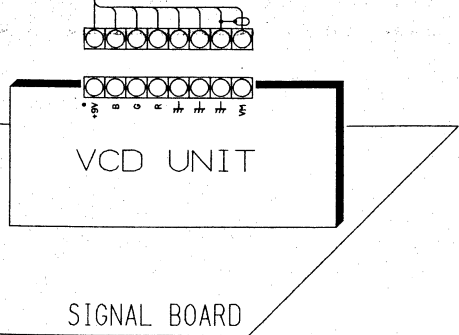
SIGNAL BOARD

| UNIT SN. |              | COPPER SIDE PARTS |  |
|----------|--------------|-------------------|--|
| BACK-T   | SN. 23783279 | SN.               |  |
| CRT-D    | SN. 23783290 | SN.               |  |
|          | SN.          | SN.               |  |
|          | SN.          | SN.               |  |



⌚ : No.1198  
⌚ : No.1199

WHEN USE THOMSON'S OPT.  
\*MARK PARTS HAVE TO CHANGE VALUE  
R920



| UNIT SN. |             | COPPER SIDE PARTS |     |
|----------|-------------|-------------------|-----|
| BACK-T   | SN.23783279 |                   | SN. |
| CRT-D    | SN.23783290 |                   | SN. |
|          | SN.         |                   | SN. |
|          | SN.         |                   | SN. |

32WD98B  
PK2921

SCHEMATIC DIAGRAM    MODEL : 32WD98B    (4/6)

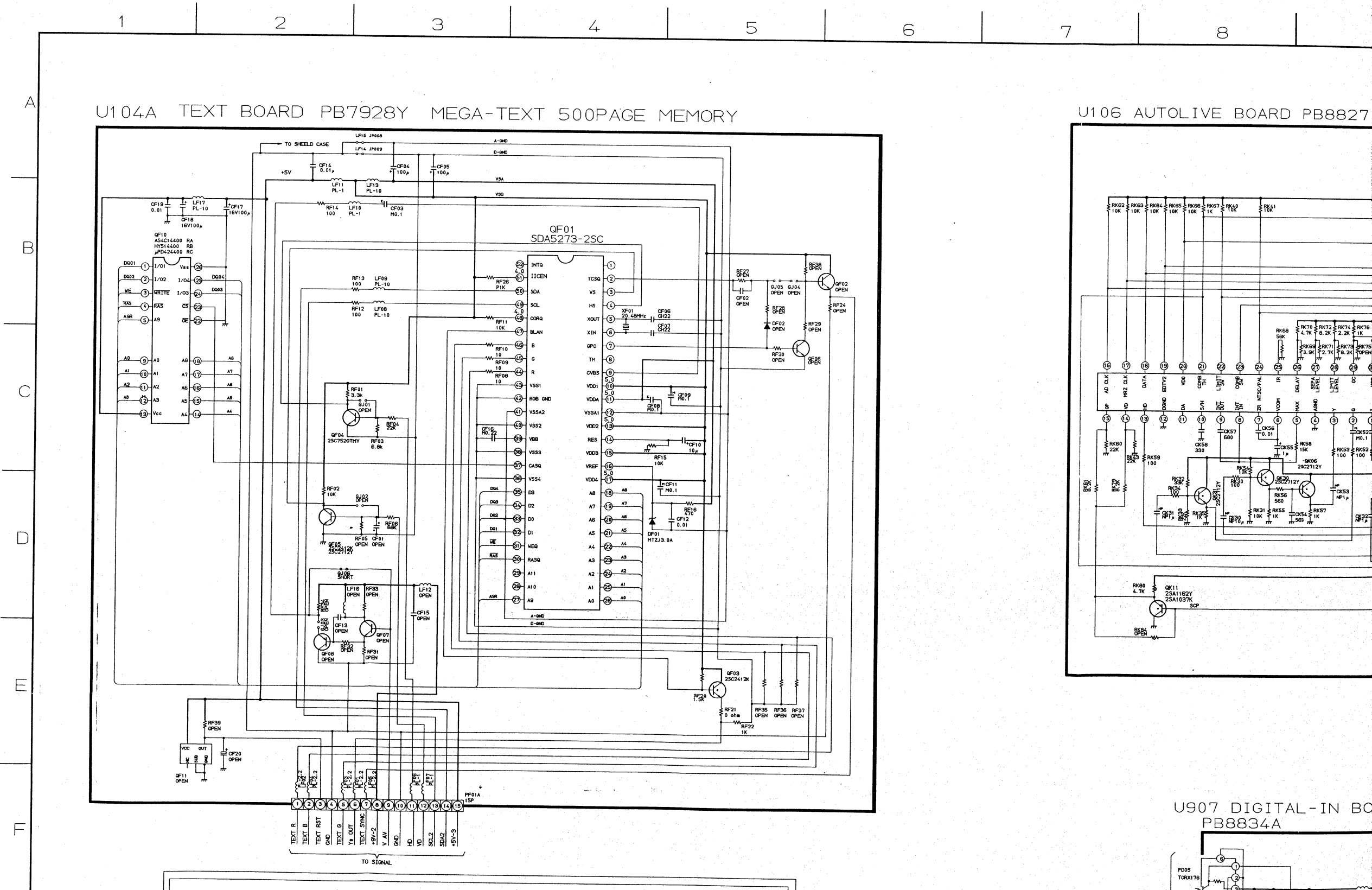
**CAUTION:** The international hazard symbols “⚠” in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

OBSERVATION OF VOLTAGES AND WAVEFORMS

- 1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary  $\pm 20\%$ .
- 2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
- 3. Waveforms are taken using a standard colour bar signal.
- 4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

NOTES:

- 1. D.C. resistance value of a principal component. These are measured for service.
- 2. The circuits are subject to change without notice.
- 3. ● : Solder links.





OBSERVATION OF VOLTAGES AND WAVEFORMS

- 1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.
- 2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
- 3. Waveforms are taken using a standard colour bar signal.
- 4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

NOTES:

- 1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
- 2. The circuits are subject to change without notice.
- 3. ● : Solder links.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

- 1. Resistance is shown in ohm, k=1,000, M=1,000,000
- 2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in µF and the values more than 1 in pF.
- 3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in µH, and the values less than 1 in H.

4

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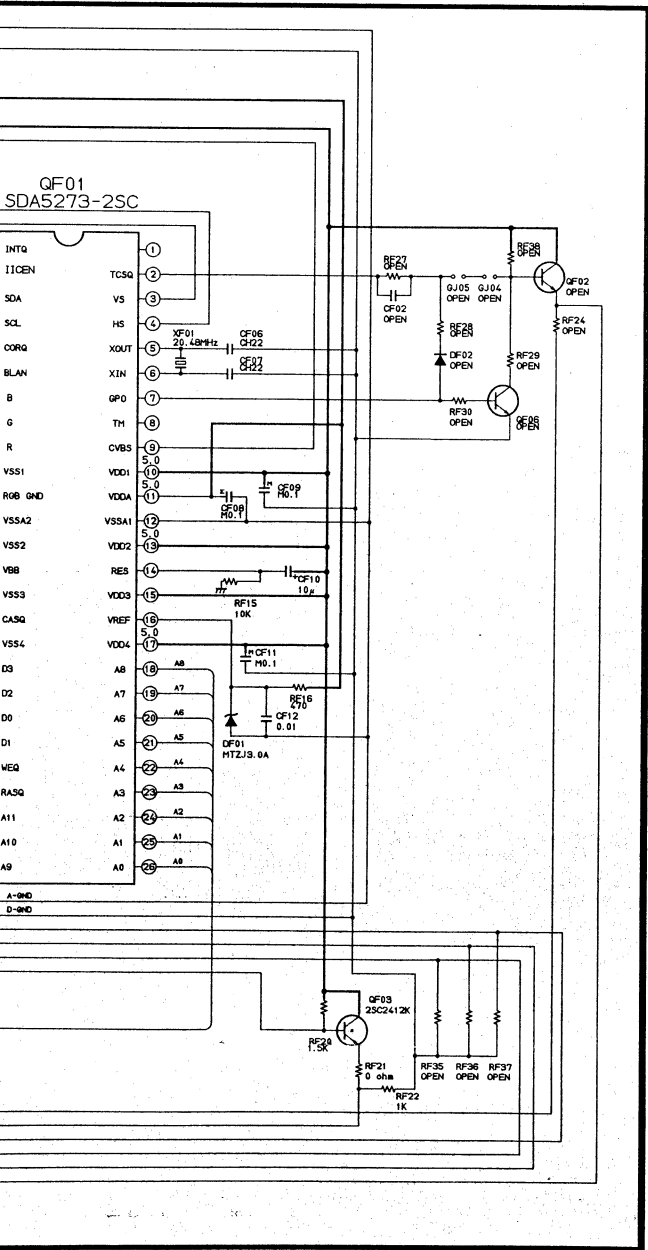
11

12

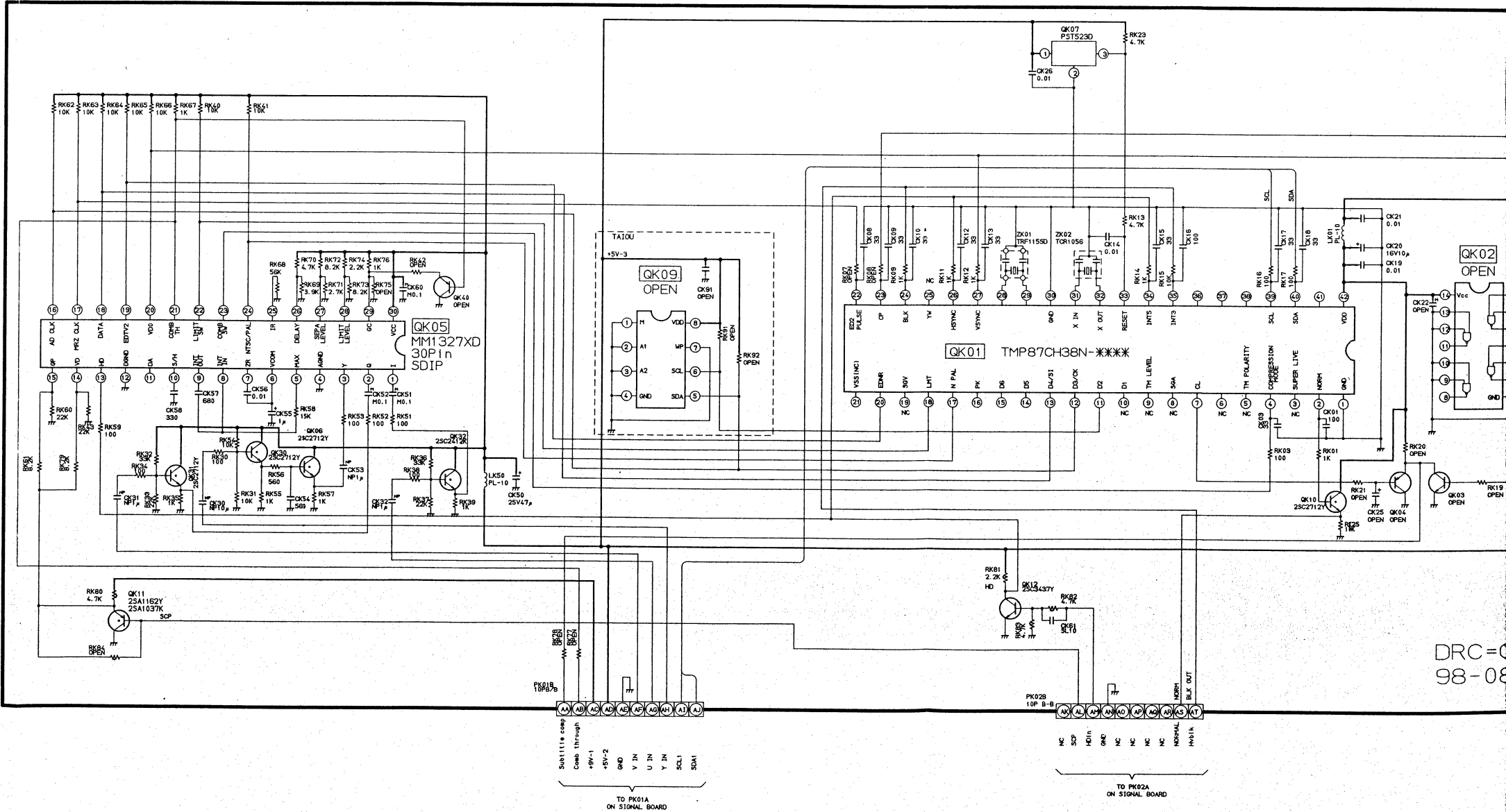
13

14

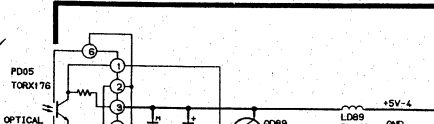
KT 500PAGE MEMORY



U106 AUTOLIVE BOARD PB8827A



U907 DIGITAL-IN BOARD PB8834A





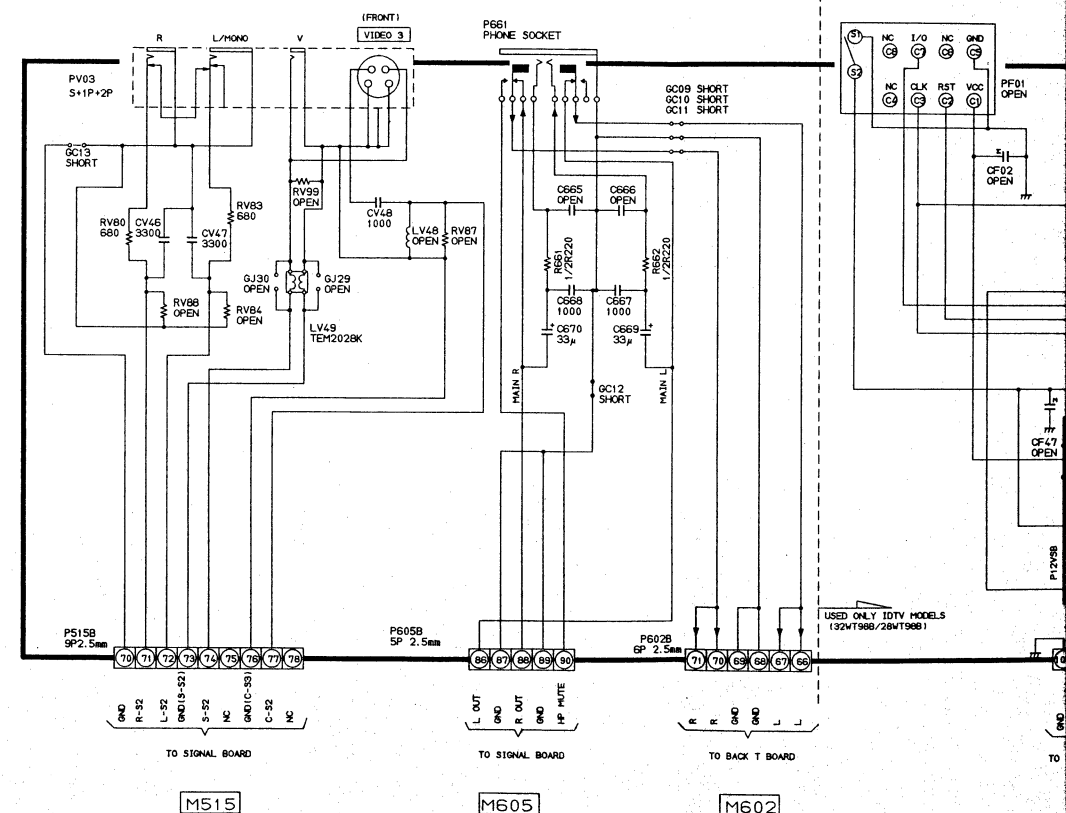
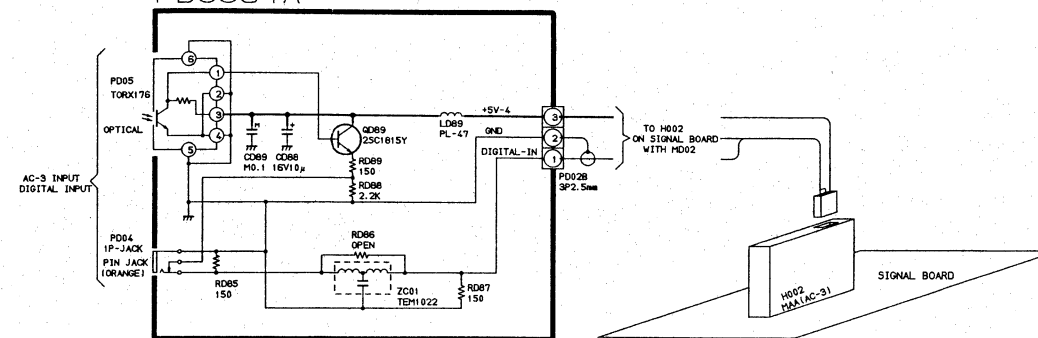
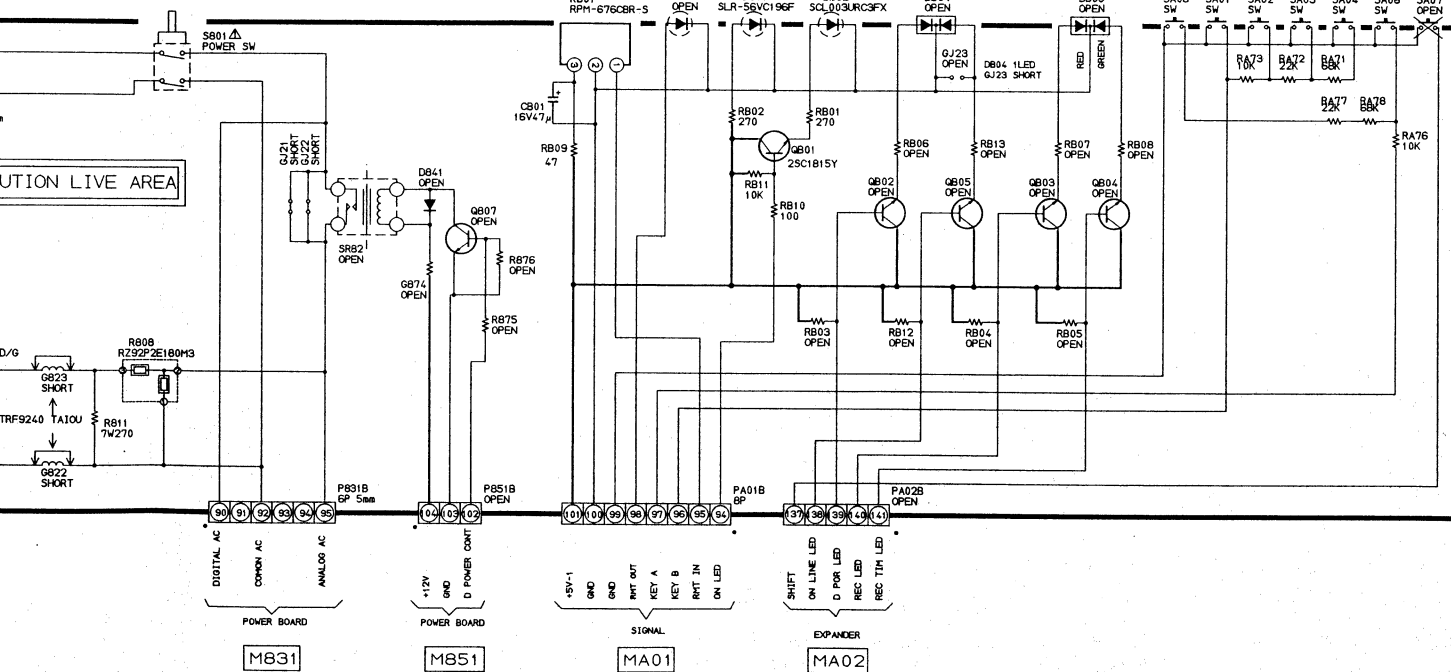
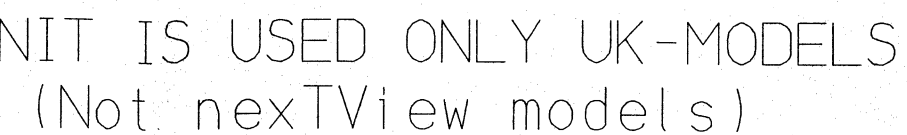
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- al transformer is shown in this schematic diagram, separated from the circuit.
- without notice.



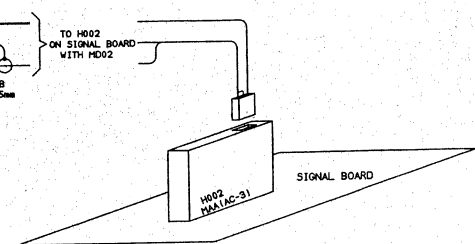
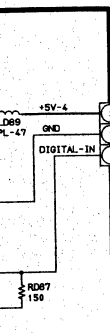
DRC=OK  
98-08-06



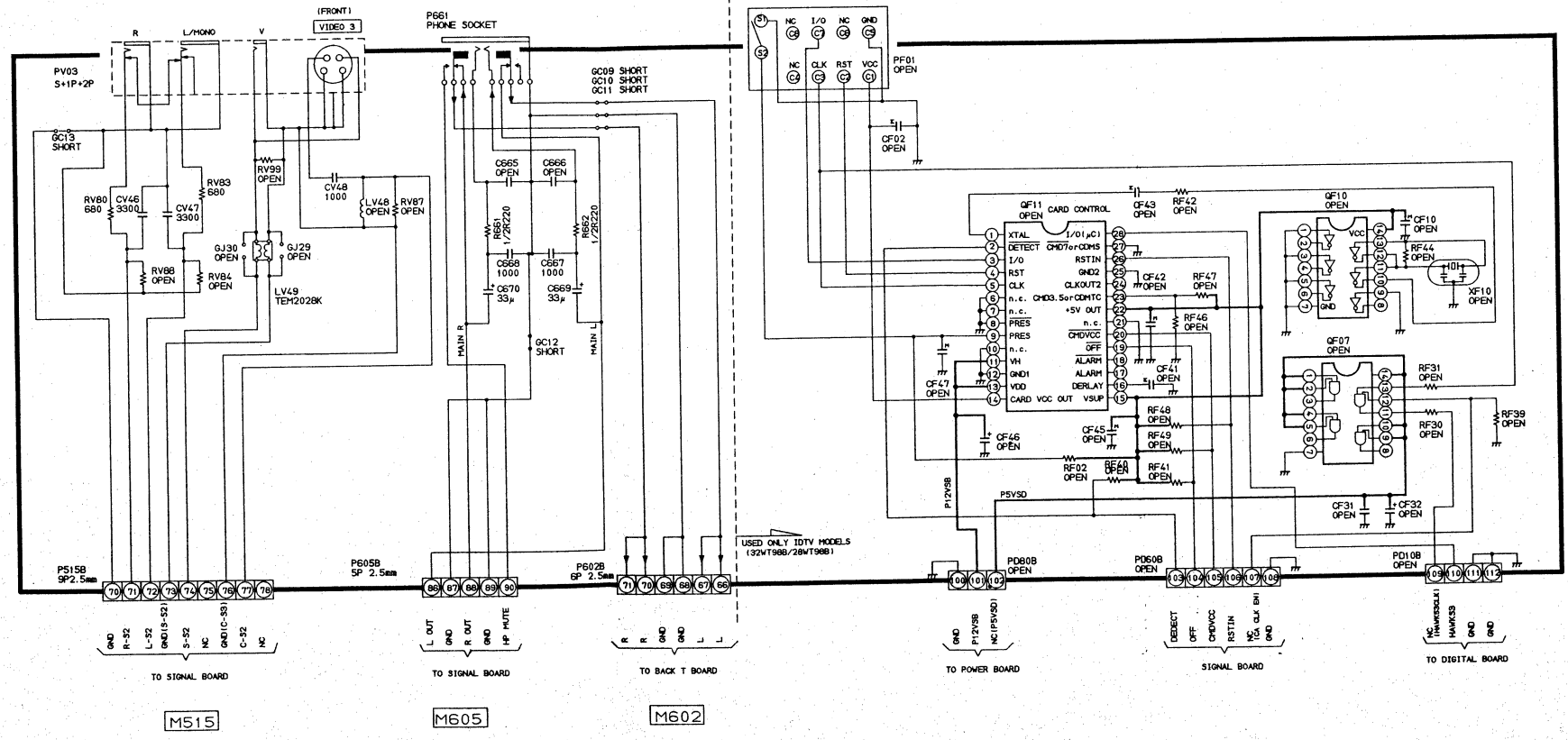


| UNIT SN. |             |
|----------|-------------|
| TEXT     | SN.23781837 |
| AUTOLIVE | SN.23783242 |
| CONT-1   | SN.23783276 |
| CONT-2   | SN.23783277 |
| D-IN     | SN.23783252 |

BOARD



U906B CONTROL-2 BOARD  
PB8835A-2



| UNIT SN  |              | COPPER SIDE PARTS |     |
|----------|--------------|-------------------|-----|
| TEXT     | SN. 23781837 |                   | SN. |
| AUTOLIVE | SN. 23783242 |                   | SN. |
| CONT-1   | SN. 23783276 |                   | SN. |
| CONT-2   | SN. 23783277 |                   | SN. |
| D-IN     | SN. 23783252 |                   | SN. |

32WD98B  
PK2922

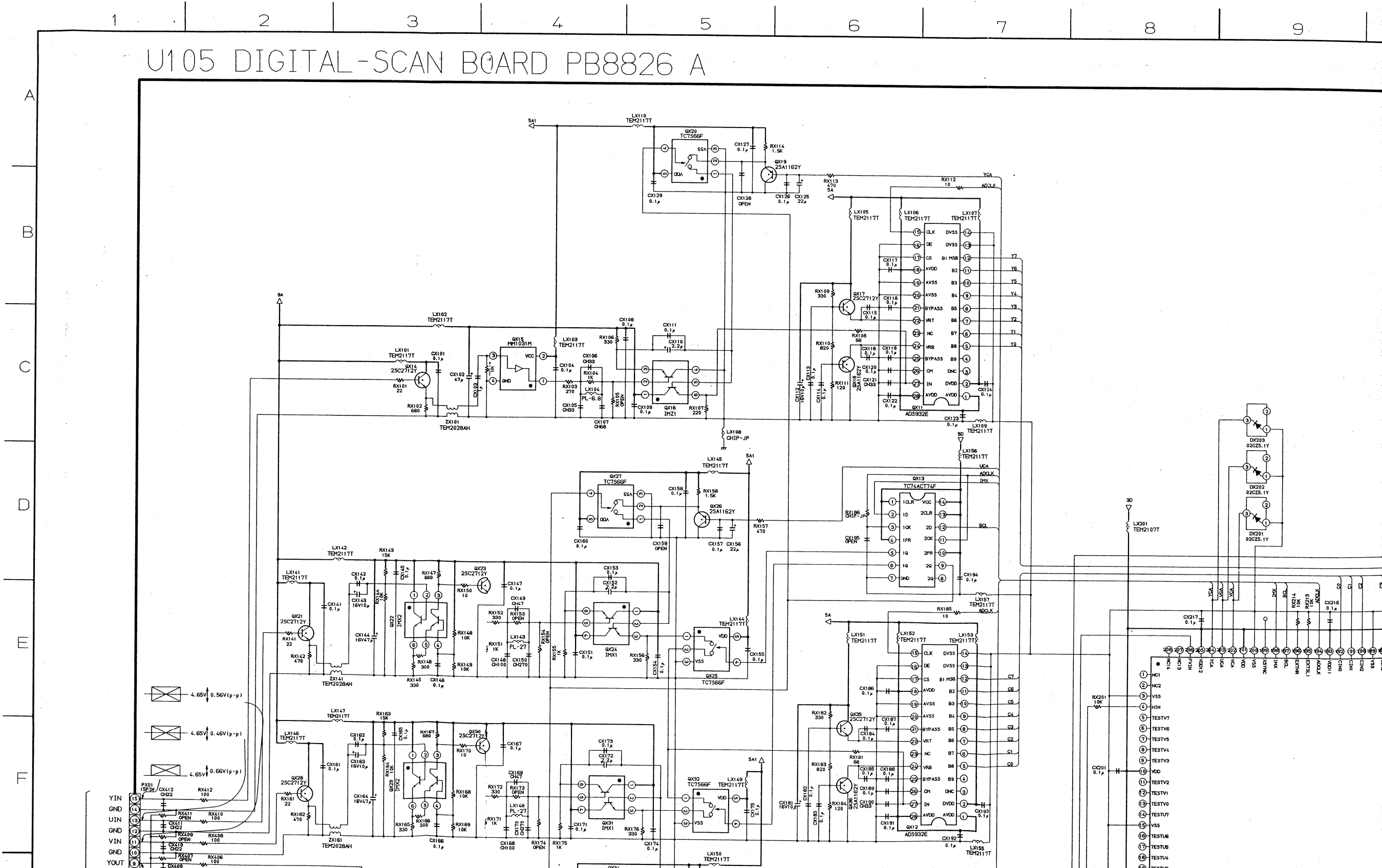
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OBSERVATION OF VOLTAGES AND WAVEFORMS

- 1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary  $\pm 20\%$ .
- 2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
- 3. Waveforms are taken using a standard colour bar signal.
- 4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

NOTES:

- 1. D.C. resistance value of a principal transformer gram. These are measured for separated from the
- 2. The circuits are subject to change without notice.
- 3. ● : Solder links.



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1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary  $\pm 20\%$ .
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
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4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

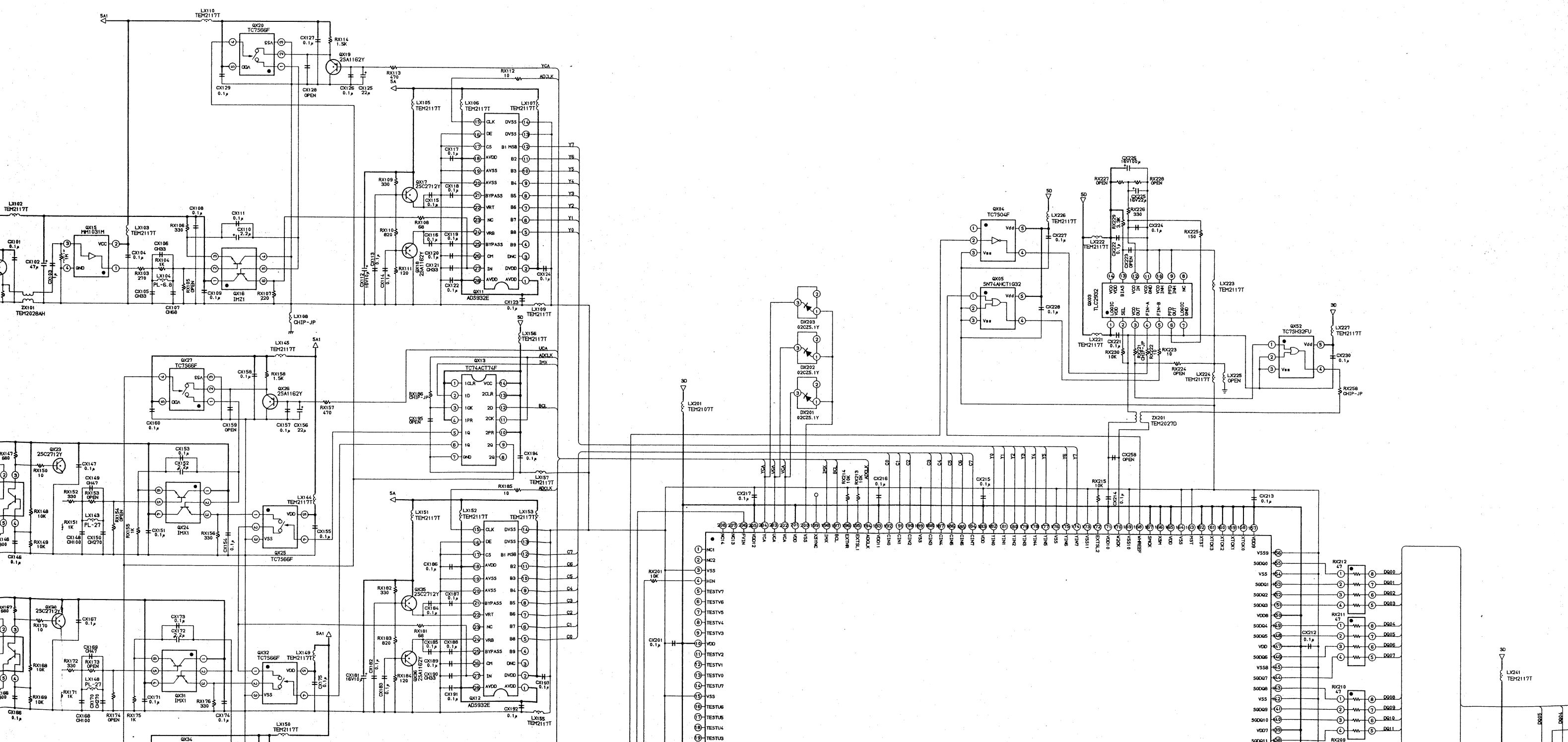
# NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3.  $\bullet$  : Solder links.

# VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are in  $\mu F$  and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are in  $\mu H$ , and the values less than 1 in H.

N BOARD PB8826 A

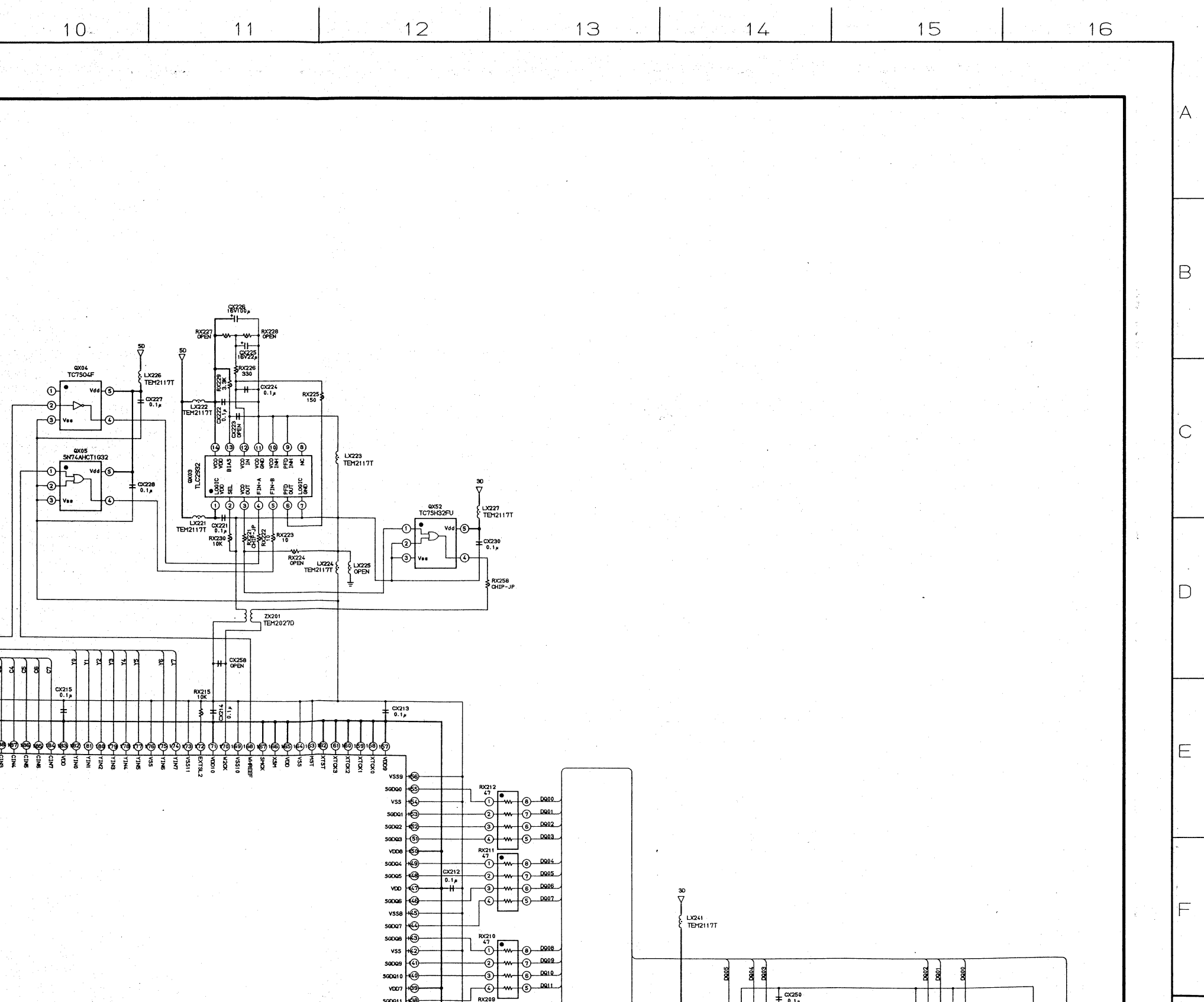




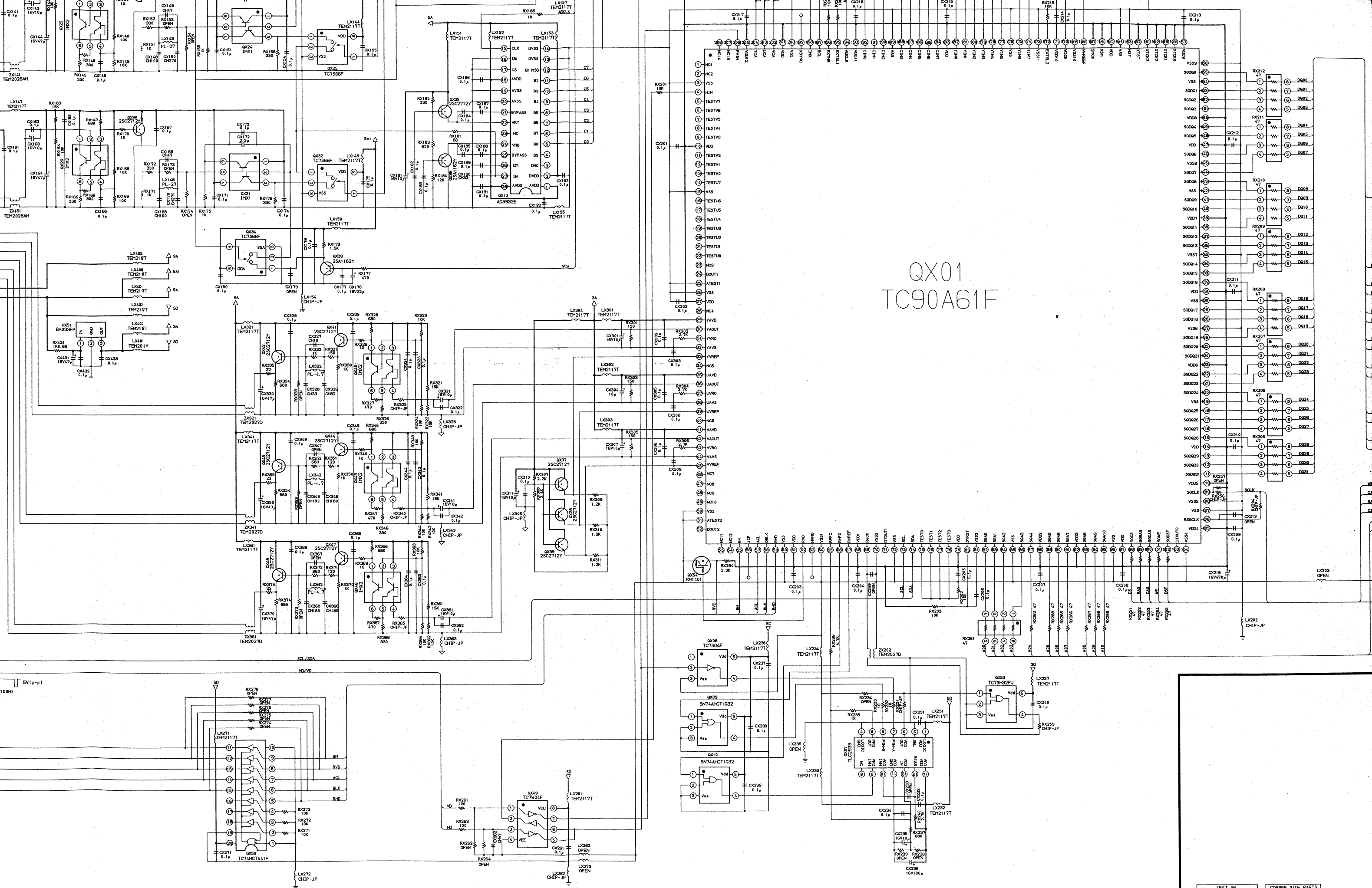
### VALUE OF RESISTOR, CAPACITOR and INDUCTOR

### VALUE OF RESISTOR, CAPACITOR and INDUCTOR

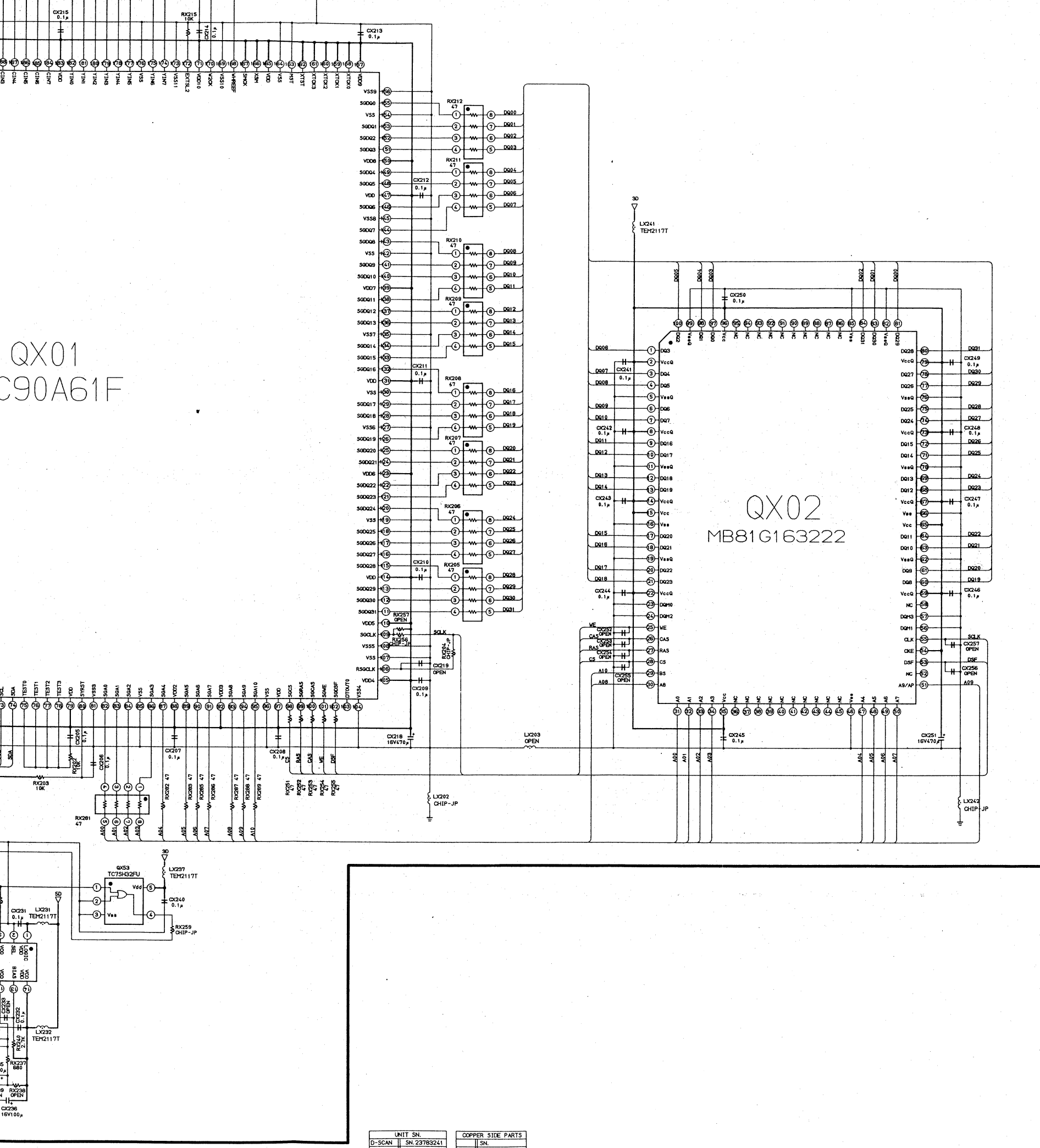
1. Resistance is shown in ohm,  $k=1,000$ ,  $M=1,000,000$
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in  $\mu F$  and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in  $\mu H$ , and the values less than 1 in H.







| UNIT SN. |             | COPPER SIDE PARTS |     |
|----------|-------------|-------------------|-----|
| D-SCAN   | SN.23783241 | SN.               | SN. |
| SN.      | SN.         | SN.               | SN. |
| SN.      | SN.         | SN.               | SN. |
| SN.      | SN.         | SN.               | SN. |



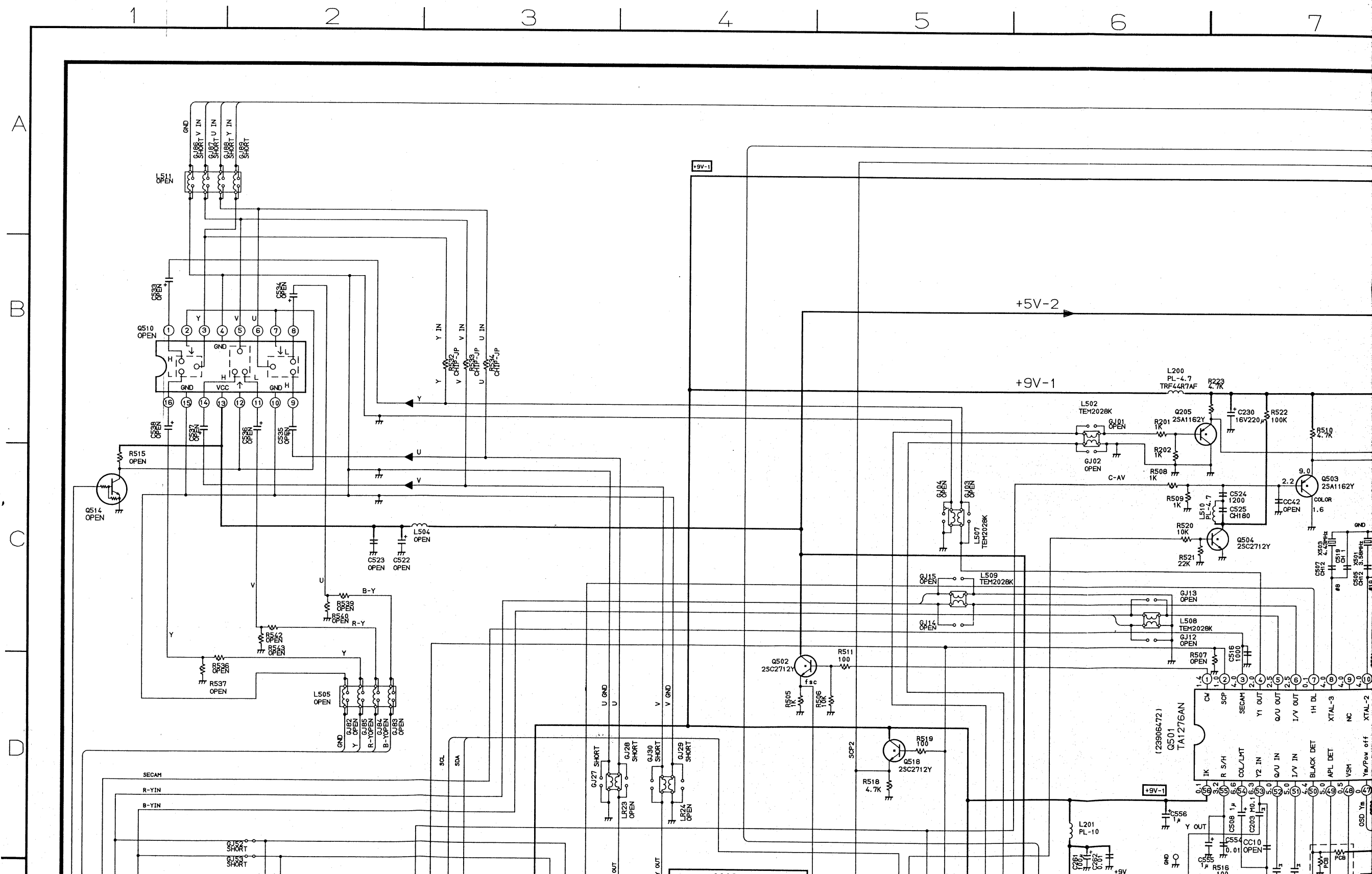
**CAUTION:** The international hazard symbols “⚠” in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

OBSERVATION OF VOLTAGES AND WAVEFORMS

- 1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary  $\pm 20\%$ .
- 2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
- 3. Waveforms are taken using a standard colour bar signal.
- 4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

NOTES:

- 1. D.C. resistance value of a principal transformer gram. These are measured for separated from the
- 2. The circuits are subject to change without notice
- 3. ● : Solder links.

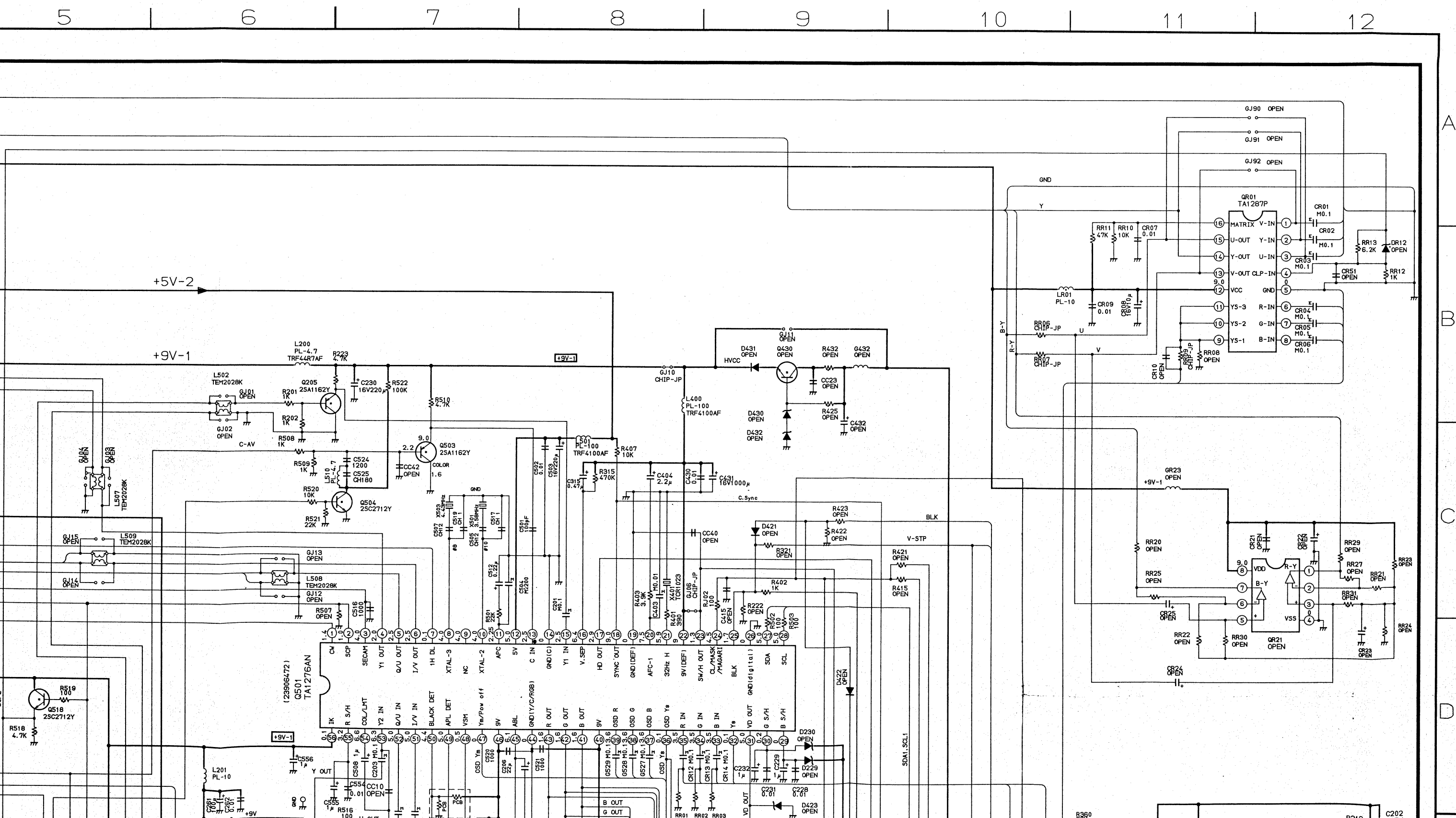


mid position and  
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2. The circuits are subject to change without notice.
3.  : Solder links.

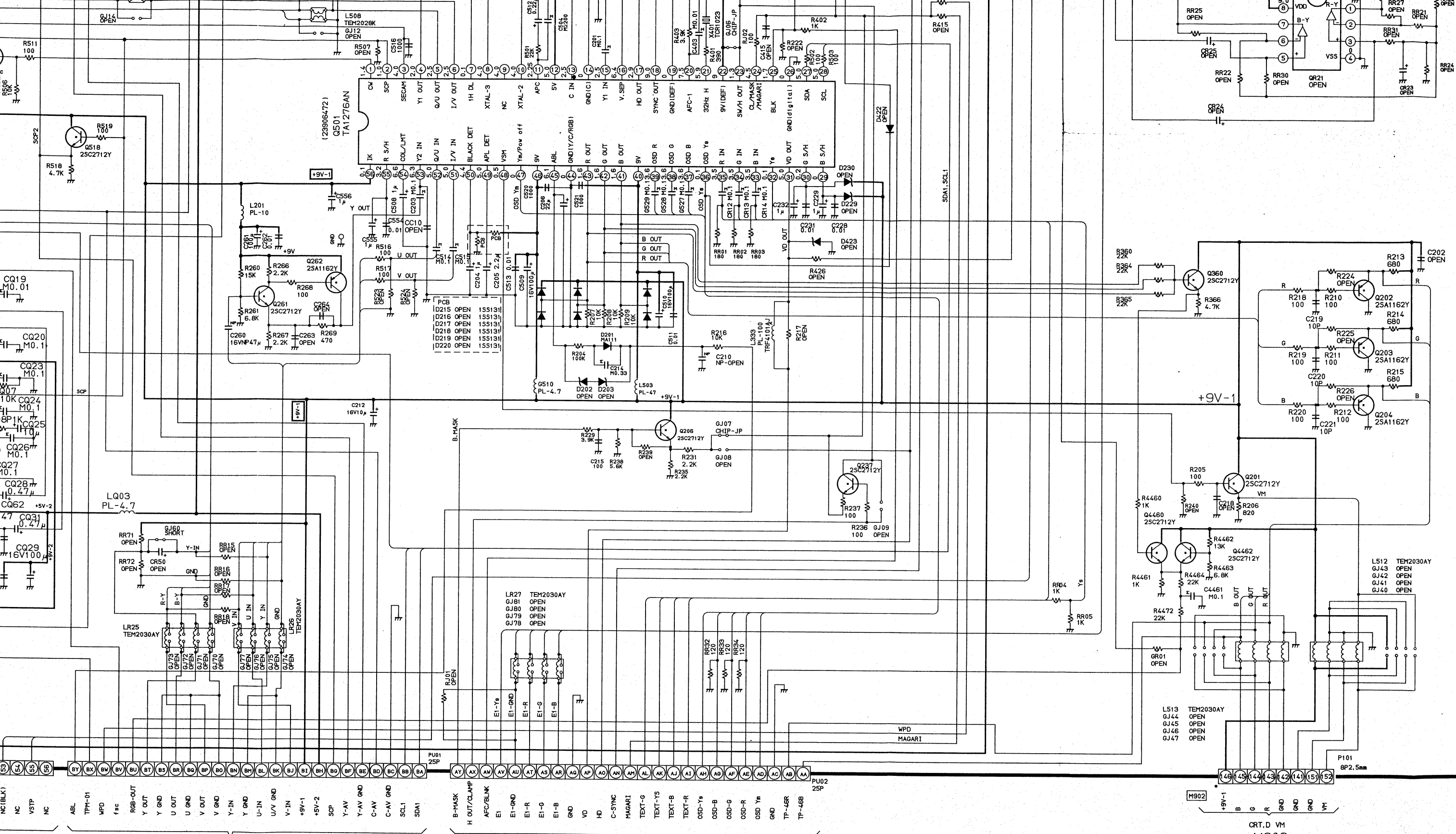
### VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm,  $k=1,000$ ,  $M=1,000,000$
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in  $\mu F$  and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in  $\mu H$ , and the values less than 1 in H.









| UNIT SN. |             | COPPER SIDE PARTS |     |
|----------|-------------|-------------------|-----|
| VCD      | SN.23783278 |                   | SN. |
|          | SN.         |                   | SN. |
|          | SN.         |                   | SN. |
|          | SN.         |                   | SN. |

32WD98B  
PK2923

## SPECIFICATIONS

|                                  |                                                                                                  |                |            |                        |
|----------------------------------|--------------------------------------------------------------------------------------------------|----------------|------------|------------------------|
| <b>Input Power Rating:</b>       | AC 220 ~ 240 Volts, 50 Hz, 175W (Approx)                                                         |                |            |                        |
| <b>Aerial Input Impedance:</b>   | 75 ohm unbalanced type for VHF, UHF and CATV                                                     |                |            |                        |
| <b>Receiving Channels:</b>       | <b>System</b>                                                                                    | <b>Channel</b> | <b>VHF</b> | <b>UHF</b> <b>CATV</b> |
|                                  | PAL I                                                                                            | UK             |            | 21 ~ 69                |
|                                  | PAL, SECAM 50 Hz/60 Hz (For Video Disk play back)                                                |                |            |                        |
|                                  | 4.43 NTSC (For VCR playback), 3.58 NTSC (For VCR playback)                                       |                |            |                        |
| <b>Intermediate Frequencies:</b> | Picture I-F carrier frequency ..... 38.9 MHz (L VL)                                              |                |            |                        |
|                                  | Sound I-F carrier frequency                                                                      |                |            |                        |
|                                  | B/G System ..... 33.4 MHz                                                                        |                |            |                        |
|                                  | D/K System ..... 32.4 MHz                                                                        |                |            |                        |
| <b>Picture Tube:</b>             | 32 inches, 760 mm (measured on diagonal of viewable picture area)                                |                |            |                        |
|                                  | 110° deflection                                                                                  |                |            |                        |
| <b>Sound Output:</b>             | 10 W + 10W (at 10% Distortion, Main), 10W (at 10% Distortion, Center)                            |                |            |                        |
|                                  | 13W (at 10% Distortion, Woofer), 10 W + 10W (at 10% Distortion, Surround)                        |                |            |                        |
| <b>Speakers:</b>                 | 60 mm × 120 mm oval, 2 pcs (Main)                                                                |                |            |                        |
|                                  | 100 mm, round, 1 pc (Woofer)                                                                     |                |            |                        |
|                                  | 60 mm × 120 mm oval, 2 pcs (Center)                                                              |                |            |                        |
| <b>Aux. Terminals:</b>           | 21 pin socket (FULL), 21 pin socket (S-VIDEO/AV), MONITOR OUTPUT, STEREO HEADPHONE JACK (3.5mm). |                |            |                        |
| <b>Cabinet:</b>                  | Table type                                                                                       |                |            |                        |
| <b>Dimensions:</b>               | Height ..... 574 mm                                                                              |                |            |                        |
|                                  | Width ..... 918 mm                                                                               |                |            |                        |
|                                  | Depth ..... 560 mm                                                                               |                |            |                        |
| <b>Mass:</b>                     | 49.5 kg                                                                                          |                |            |                        |

\* Please refer to owner's manual in detail.

# **TOSHIBA CORPORATION**

1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN

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